

DEPARTMENT OF RAILWAYS AND CANALS

CANAL STATISTICS

FOR THE

SEASON OF NAVIGATION

1908

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

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EXCELLENT MAJESTY

1909

[No. 20a—1910]

To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom, and a Baronet ; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., &c., Governor General of Canada.

MAY IT PLEASE YOUR EXCELLENCY,—

The undersigned has the honour to present to Your Excellency the report on Canal Statistics for the year ended December 31, 1908.

GEO. P. GRAHAM,
Minister of Railways and Canals.

To the Honourable GEORGE P. GRAHAM,
Minister of Railways and Canals.

SIR,—I have the honour to submit the annual report of the Controller of Railway Statistics in relation to the operations of the Canals of the Dominion for the year ended December 31, 1908.

I have the honour to be, Sir,

Your obedient servant,

M. J. BUTLER,
Deputy Minister of Railways and Canals.

OFFICE OF THE COMPTROLLER OF STATISTICS,
OTTAWA, 20th March, 1909.

M. J. BUTLER, Esq.,
Deputy Minister of Railways and Canals.

SIR,—I have the honour to submit to you herewith Canal Statistics for the year ended 31st December, 1908.

It has been possible to prepare this report earlier than in preceding years, because of changes in the method of tabulation.

Freight carried through the canals of the Dominion during the year 1908 aggregated 17,502,820 tons—a reduction of 3,040,819 as compared with 1907. Nevertheless, the volume of traffic was largely in excess of the record for all years anterior to 1907. The facts relating to the last ten years are as follows :—

1899.....	6,225,924 tons.
1900.....	5,013,693 "
1901.....	5,665,259 "
1902.....	7,513,197 "
1903.....	9,203,817 "
1904.....	8,256,236 "
1905.....	9,371,744 "
1906.....	10,523,185 "
1907.....	20,543,639 "
1908.....	17,502,820 "

The decline for the year 1908 was made up of 2,568,658 tons in east-bound and 472,161 in west-bound traffic. This falling off, however, related almost wholly to United States business passing through the canals of Canada, as the following statements show :—

		1907.	1908.
Canadian to Canadian ports.....	up	1,034,733	1,028,246
" " ".....	down	3,162,158	3,292,422
" United States ports....	up	891,692	560,736
" " "....	down	226,138	278,721
United States to " "....	up	1,991,959	1,704,310
" " "....	down	11,060,878	8,218,866
" " Canadian "....	up	819,369	972,300
" " "....	down	1,356,712	1,447,219

Thus it will be seen that while there was a decrease of 3,129,661 tons in the traffic between United States ports, there was an actual increase of 88,842 tons in the business affecting Canadian ports.

9-10 EDWARD VII., A. 1910

The falling off in tonnage related very largely to iron ore, of which 10,105,016 tons passed through the canals—chiefly the Sault Ste. Marie—in 1907 and 7,402,672 in 1908. Of wheat, 3,199,031 tons were reported in 1908 as compared with 2,473,202 in 1907. Oats and barley showed increases, while there was a decline in the quantity of flour transported by water. An analysis of the traffic by commodities is given in a table on a succeeding page.

It is also gratifying to observe that the tonnage of Canadian vessels passing through the canals showed an increase for 1908 of 451,878 tons over the preceding year.

A distinct and valuable feature of novelty in the statistics for 1908 has reference to the country in which the cargo originated. Prior to last year no record had been kept of this important data. There was no discrimination between the products of Canada and those of the United States carried through the canals. In future, however, it will be possible to trace the movement of the commodities of both countries through Canadian channels at least.

For 1908 the origin of cargoes was as follows :—

Canal.	United States. Tons.	Canada. Tons.
Welland	927,208	776,245
St. Lawrence	747,451	1,261,651
Chambly	123,602	379,674
Ottawa . . . . .	.....	258,527
Rideau	12,121	77,519
St. Peters . . . . .	.....	72,015
Trent Valley . . . . .	.....	81,690
Murray	13,306	12,595
Sault Ste. Marie	10,666,985	2,092,231
Total	12,490,683	5,012,147

Changes have been made this year in the arrangement of the tables, which it is hoped will bring them under the eye in more convenient form than they have appeared hitherto.

The following summaries and digests of statistical data have been brought down to the close of 1908 :—

STATEMENT of total Freight passed through the Canals for the following years :—

Years.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		TONS.		TOTAL TONS.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
1887.....	336,648	1,154,424	138,692	202,563	151,805	192,528	86,374	457,482	713,519	2,006,997	2,720,516
1888.....	355,165	1,146,260	138,127	174,239	214,407	223,429	81,611	428,357	789,310	1,972,287	2,761,597
1889.....	384,777	1,156,306	122,295	198,497	267,224	300,193	81,243	603,311	855,529	2,258,367	3,113,896
1890.....	369,593	1,137,011	144,368	133,188	216,813	320,324	58,709	533,021	789,505	2,123,542	2,913,047
1891.....	370,120	1,155,247	103,814	123,193	248,188	307,958	50,747	543,259	772,869	2,129,657	2,902,526
1892.....	327,560	1,322,137	173,538	135,787	241,034	302,983	47,396	481,301	789,528	2,242,208	3,031,736
1893.....	351,706	1,344,822	214,076	141,602	247,329	385,769	54,912	806,773	868,023	2,678,966	3,546,989
1894.....	299,155	1,140,606	204,175	89,614	231,172	363,107	46,020	568,866	780,522	2,162,193	2,942,715
1895.....	264,824	1,070,046	286,191	91,177	362,637	608,778	62,285	590,140	975,937	2,360,141	*3,336,078
1896.....	293,353	1,619,668	259,659	100,519	1,197,245	3,536,054	117,535	867,040	1,867,792	6,123,281	7,991,073
1897.....	275,587	1,713,274	268,700	187,960	669,142	4,369,314	108,787	968,203	1,322,216	7,238,751	8,560,967
1898.....	263,989	1,819,887	187,253	98,967	929,508	2,425,121	81,615	912,135	1,362,365	5,256,110	6,618,475
1899.....	296,208	1,833,412	266,364	115,133	732,030	2,129,988	125,678	727,111	1,420,280	4,805,644	6,225,924
1900.....	312,201	1,632,915	270,033	81,714	568,197	1,339,915	105,155	703,563	1,255,586	3,758,107	5,013,693
1901.....	340,805	1,686,094	268,449	201,231	507,204	1,801,696	177,715	682,065	1,294,173	4,371,086	5,665,259
1902.....	529,085	2,064,480	308,212	342,484	515,828	3,000,636	190,243	562,229	1,543,368	5,969,829	7,513,197
1903.....	648,150	2,391,366	430,174	408,500	863,337	3,130,816	373,456	958,018	2,315,117	6,888,700	9,203,817
1904.....	606,737	2,047,499	511,887	276,578	699,784	2,778,903	483,795	851,053	2,302,203	5,954,033	8,256,236
1905.....	736,976	2,252,514	549,365	347,089	607,228	3,183,895	577,528	1,137,146	2,451,097	6,920,647	9,371,744
1906.....	1,238,929	2,355,855	627,094	234,919	991,508	3,595,256	482,239	997,385	3,339,770	7,183,415	10,523,185
1907.....	1,034,733	3,162,158	891,692	226,138	1,991,959	11,060,878	819,369	1,356,712	4,737,753	15,805,886	20,543,639
1908.....	1,028,246	3,292,422	560,736	278,721	1,704,310	8,218,866	972,300	1,447,219	4,265,592	13,237,228	17,502,820

*Sault Ste. Marie canal opened in August, 1895.

STATEMENT of the Tonnage of Canadian and United States Vessels for the following years :—

CANADIAN VESSELS.

Years.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		TONS.		TOTAL TONS.	Number of Vessels.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up & Down.	
1887.....	1,201,529	1,194,665	162,554	36,277	1,071	65	30,778	221,013	1,395,932	1,452,020	2,847,952	18,991
1888.....	1,113,290	1,120,774	158,209	34,368	1,252	.....	22,553	189,876*	1,295,304	1,345,018	2,640,322	17,661
1889.....	1,285,574	1,207,892	188,131	39,371	976	802	20,271	252,565	1,494,952	1,500,630	2,995,582	19,393
1890.....	1,314,127	1,250,999	229,478	32,909	929	351	14,003	296,676	1,558,537	1,580,935	3,139,472	20,655
1891.....	1,356,518	1,287,168	201,758	28,642	550	292	16,350	244,176	1,575,176	1,560,278	3,135,454	19,246
1892.....	1,517,249	1,460,505	177,136	29,184	1,466	394	14,659	201,374	1,710,510	1,691,455	3,401,965	21,177
1893.....	1,548,094	1,422,326	170,186	26,787	1,172	10	17,037	248,442	1,736,489	1,697,565	3,434,054	20,757
1894.....	1,319,792	1,260,907	217,635	19,298	2,177	5	6,394	222,696	1,545,998	1,502,906	3,048,904	19,027
1895.....	1,258,848	1,165,683	253,693	13,383	.....	.....	5,899	285,553	1,518,440	1,464,619	2,983,059	17,136
1896.....	1,547,757	1,420,342	200,292	5,234	157	.....	4,115	271,809	1,752,321	1,697,385	3,449,706	20,972
1897.....	1,629,192	1,482,951	215,785	11,378	.....	.....	3,533	297,898	1,848,510	1,792,227	3,640,737	21,466
1898.....	1,704,661	1,609,255	215,393	4,927	499	518	6,805	255,927	1,927,358	1,870,627	3,797,985	21,509
1899.....	1,865,643	1,774,789	242,817	32,436	925	3,691	42,290	345,980	2,151,675	2,156,896	4,308,571	23,579
1900.....	1,767,293	1,681,340	265,926	14,922	2,909	64	38,015	358,781	2,074,143	2,055,107	4,129,250	21,755
1901.....	1,615,952	1,587,221	279,007	82,541	3,300	2,908	97,332	312,003	1,995,591	1,984,673	3,980,264	20,860
1902.....	1,914,167	1,840,787	241,356	97,492	1,874	2,164	101,335	286,520	2,258,732	2,226,963	4,485,695	22,198
1903.....	2,061,258	2,088,969	340,383	143,614	7,018	3,082	188,896	379,612	2,597,555	2,615,277	5,212,832	23,767
1904.....	1,838,260	1,907,886	299,245	159,740	5,175	4,223	237,910	319,661	2,380,590	2,391,510	4,772,100	21,851
1905.....	2,059,097	2,031,766	312,773	188,138	11,820	3,191	262,401	322,005	2,646,091	2,545,100	5,191,191	23,726
1906.....	2,271,776	2,264,476	292,705	155,595	24,420	5,506	202,276	309,567	2,791,177	2,735,144	5,526,321	25,498
1907.....	2,561,948	2,661,317	337,822	129,246	9,153	7,331	238,172	383,922	3,147,095	3,181,816	6,328,911	28,833
1908.....	2,726,776	2,748,139	318,327	227,315	5,057	7,844	348,944	598,387	3,399,104	3,381,685	6,780,789	29,040

STATEMENT of the Tonnage of Canadian and United States Vessels, for the following years :—
UNITED STATES VESSELS.

YEARS.	FROM CANADIAN TO CANADIAN PORTS.		FROM CANADIAN TO UNITED STATES PORTS.		FROM UNITED STATES TO UNITED STATES PORTS.		FROM UNITED STATES TO CANADIAN PORTS.		TONS.		TOTAL TONS.	Number of Vessels.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		
1887.....	16,265	17,925	38,857	56,708	143,730	140,562	52,793	98,840	251,645	315,035	566,680	3,883
1888.....	14,304	26,801	42,425	50,047	177,714	156,095	49,778	114,613	284,221	347,556	631,777	3,921
1889.....	21,125	26,449	55,996	50,732	253,088	206,567	56,249	160,442	386,458	444,190	830,648	4,542
1890.....	10,390	16,345	38,156	36,397	248,418	234,728	39,697	97,266	336,661	384,736	721,397	3,364
1891.....	10,357	29,851	70,665	27,727	283,013	238,818	31,083	146,602	395,118	442,998	838,116	3,602
1892.....	12,023	29,405	88,221	22,763	280,315	229,437	37,037	172,594	417,596	454,199	871,795	3,928
1893.....	10,752	34,303	214,047	33,741	351,994	282,724	50,994	307,740	627,787	658,508	1,286,295	4,585
1894.....	18,528	30,201	139,720	20,830	302,562	269,788	37,406	192,992	498,216	513,811	1,012,027	4,131
1895.....	8,838	24,768	138,554	17,712	262,240	216,542	32,295	185,730	441,927	444,752	886,679	4,427
1896.....	11,496	19,093	195,228	21,953	357,205	292,359	40,416	290,370	604,345	623,775	1,228,120	4,650
1897.....	14,666	18,367	269,430	17,618	338,938	277,345	26,341	347,698	649,375	661,028	1,310,403	4,675
1898.....	12,142	9,541	233,524	32,880	308,878	305,464	32,331	336,004	586,875	683,889	1,270,764	4,264
1899.....	17,217	18,044	172,897	30,002	1,605,887	1,156,503	51,902	234,336	1,846,848	1,438,885	3,285,733	6,101
1900.....	13,316	17,824	157,689	30,443	1,208,725	744,276	45,741	190,971	1,425,471	983,514	2,408,985	5,502
1901.....	11,587	18,706	177,169	28,124	922,464	1,044,707	54,895	224,622	1,166,115	1,316,159	2,482,274	5,634
1902.....	13,622	37,871	187,826	70,641	1,756,948	1,654,672	123,257	241,602	2,081,653	2,004,786	4,086,439	6,433
1903.....	14,014	24,168	265,208	65,247	1,736,187	1,689,414	106,401	335,836	2,121,810	2,114,665	4,236,475	6,695
1904.....	10,122	16,890	275,721	39,993	1,464,316	1,475,085	68,081	305,697	1,818,240	1,837,665	3,655,905	6,253
1905.....	19,743	19,444	364,985	81,876	2,350,494	1,701,704	101,536	456,459	2,836,758	2,259,483	5,096,241	7,085
1906.....	34,306	15,324	356,259	78,561	2,738,623	1,928,131	115,675	418,436	3,244,863	2,440,452	5,685,315	7,319
1907.....	57,349	72,018	304,591	72,048	4,730,053	5,376,060	205,769	623,941	5,463,767	6,141,067	11,604,834	9,328
1908.....	54,587	32,705	442,773	124,120	2,975,624	4,142,392	218,835	536,103	3,685,819	4,835,320	8,521,139	7,489

TONNAGE of Articles carried through Canadian Canals, from 1889 to 1908.

Articles.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
1. Bricks	10,299	12,359	14,273	12,001	14,727	10,725	9,122	10,855	10,903	9,873
2. Cement	6,432	3,164	5,406	4,822	10,754	10,591	9,652	7,829	12,820	19,351
3. Iron (all kinds).....	44,186	39,798	22,167	17,986	30,197	25,837	28,471	30,334	41,949	26,979
4. Steel.	10,056	198	7,067	3,606	1,258	1,565	2,759	13,716	6,854	9,387
5. Stone for cutting.....	19,930	13,891	13,750	3,972	357	166	1,243	1,359	1,713	2,785
6. Apples.....	3,695	4,329	7,566	7,190	3,929	5,160	3,473	16,716	5,204	3,412
7. Barley.	8,821	14,185	27,840	16,504	20,700	29,358	10,186	15,328	19,168	15,510
8. Corn.....	356,446	344,261	197,604	196,913	450,330	174,279	173,269	339,092	395,753	624,854
9. Flour.. ..	11,416	20,706	20,684	25,746	26,136	43,751	50,343	49,576	15,930	34,061
10. Hay pressed.....	3,617	3,623	5,648	5,867	12,100	18,090	22,121	10,973	5,990	5,880
11. Meals (all kind).	20,313	22,211	27,021	33,097	37,272	61,426	48,008	47,889	44,014	25,580
12. Oats.....	31,977	33,857	64,300	90,682	53,620	30,957	20,158	650	82,527	75,079
13. Potatoes	632	880	814	950	417	252	232	394	1,528	1,820
14. Seeds.	10,804	2,273	10,273	5,776	6,193	4,612	182	5,645	1,576	5,783
15. Agric. Products Vegetables.	21,901	10,700	8,321	15,669	10,589	1,484	5,811	6,945	1,751	3,320
16. Cattle.....	950	1,303	1,220	879	788	808	723	877	1,199	1,515
17. Horses....	610	728	693	844	773	774	2,568	931	878	1,064
18. Pork.....	1,971	1,190	1,152	870	608	1,331	811	1,177	945	3,412
19. Sheep	542	653	699	663	528	675	793	613	646	451
20. Marble	4,502	4,476	3,590	3,214	2,168	853	898	32	531	208
21. Sugar.....	9,160	8,624	4,112	9,886	13,246	31,586	16,050	23,737	14,243	17,401
22. Whisky	1,416	1,580	1,681	1,335	1,050	1,183	1,498	850	1,054	1,029
23. Firewood.....	100,636	109,785	115,089	169,971	220,516	177,905	202,938	218,204	271,112	187,216
24. Lumber sawn.....	899,209	745,929	673,020	760,251	671,926	642,742	587,226	600,580	595,522	593,261
25. Railway ties.	16,022	10,799	10,165	12,589	9,418	3,926	6,383	4,440	9,558	6,467
26. Square timber.....	79,791	74,895	25,301	48,983	47,871	48,359	64,875	57,618	86,104	50,844
27. Saw logs.....	36,927	27,093	36,367	44,156	33,137	29,299	29,075	28,220	40,313	23,887
28. Coal	553,868	470,808	511,729	517,261	537,279	517,532	466,234	534,400	379,111	480,316
29. Iron ore.....	2,433	5,367	3	Nil.	Nil.	Nil.	60	490	Nil.	13,433
30. Timber and other woods free	69,286	72,075	69,247	47,565	66,673	53,221	59,169	45,027	68,017	28,952
31. *Wheat, Corn, Flour, Iron,	424,915	362,072	403,045	380,934	663,013	408,781	381,518	593,272	695,086	652,349
Salt, Coal.....	185,180	143,952	230,840	301,486	285,799	279,720	209,984	335,469	370,167	299,055
32. Wheat.....										

* These articles were free, going westward, in the years when tolls were charged, and appear in this grouped form in the Statistics of the Department.

Tonnage of Articles carried through Canadian Canals from 1889 to 1908.—*Concluded.*

Articles.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
1. Bricks.....	11,075	18,313	18,697	17,884	11,086	9,097	23,814	17,713	20,953	15,769
2. Cement.....	6,938	10,628	20,079	22,614	28,600	25,539	31,942	45,619	78,347	49,577
3. Iron (all kinds).....	27,158	46,153	79,415	118,916	135,160	123,121	145,260	218,801	226,674	185,259
4. Steel.....	17,684	8,861	4,043	2,104	8,514	4,300	5,661	4,632	22,740	82,902
5. Stone for cutting.....	5,364	2,432	2,539	3,228	4,961	576	23,511	31,937	35,969	77,094
6. Apples.....	4,480	6,182	1,973	7,695	13,480	11,865	9,217	8,046	8,258	.....
7. Barley.....	28,353	26,754	27,699	38,137	51,003	75,538	114,226	123,950	154,986	174,628
8. Corn.....	399,915	318,493	185,893	81,645	338,132	189,739	257,387	244,122	410,671	153,713
9. Flour.....	39,618	97,545	171,400	357,104	359,848	260,630	243,938	297,937	378,644	228,605
10. Hay pressed.....	15,492	25,998	38,277	41,537	50,129	32,576	33,354	26,811	25,121	18,259
11. Meals (all kind).....	21,310	17,175	15,812	29,321	29,989	24,174	14,814	27,472	49,612	28,100
12. Oats.....	65,495	96,062	72,978	46,717	66,621	72,723	101,258	209,286	343,984	460,397
13. Potatoes.....	2,528	3,505	4,409	4,802	6,804	5,351	7,420	5,853	6,535	6,858
14. Seeds.....	7,345	3,308	4,602	8,303	6,828	5,477	3,727	1,455	255,679	.....
15. Agric. Products Vegetables.....	2,952	1,909	2,663	9,178	3,219	2,688	6,470	4,805	10,978	25,838
16. Cattle.....	1,299	972	1,386	1,538	1,236	1,766	1,468	932	552	628
17. Horses.....	1,049	869	1,192	1,258	1,544	1,605	1,346	1,685	784	701
18. Pork.....	2,317	1,074	1,720	1,740	1,483	1,337	1,213	834	1,185	2,273
19. Sheep.....	535	504	557	743	302	605	616	514	332	209
20. Marble.....	2,428	3,906	2,223	1,262	1,521	22	2,475	2,575	2,406	.....
21. Sugar.....	20,238	20,313	11,890	14,353	8,190	9,203	27,275	42,801	62,634	.....
22. Whisky.....	1,504	1,595	1,572	2,876	5,000	5,396	6,680	9,970	10,682	10,193
23. Firewood and Pulpwood.....	212,076	227,108	217,105	307,172	320,765	440,254	423,693	468,133	59,999	467,306
24. Lumber sawn.....	597,109	521,282	472,954	557,607	583,522	476,436	591,028	645,257	533,294	417,229
25. Railway ties.....	16,423	7,587	12,508	7,653	4,603	3,788	7,470	5,608	3,371	2,598
26. Square timber.....	26,288	25,943	32,293	26,281	32,286	43,557	13,215	18,585	37,124	53,072
27. Saw logs.....	13,919	34,684	19,073	24,144	20,540	26,630	58,949	90,929	35,628	18,056
28. Coal.....	468,912	1,028,113	1,033,762	782,053	1,590,595	1,570,113	1,596,935	1,804,974	3,546,683	3,528,109
29. Iron ore.....	26,420	1,058,052	1,712,320	2,556,279	2,703,827	2,482,181	2,959,300	2,970,637	10,105,016	7,402,672
30. Timber and other woods.....	32,624	38,296	48,666	68,615	68,487	64,808	68,629	70,015	.....	29,170
*Wheat, Corn, Flour, Iron, Salt,										
31. Coal.....	454,895	352,499	280,902	395,078	558,897	427,614	553,866	709,320	.....	.....
32. Wheat.....	329,086	293,638	669,557	1,309,218	1,433,288	1,202,716	1,248,567	1,406,741	2,473,202	3,199,031
33. Other articles.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	866,574

* Wheat, corn, flour, iron, salt and coal form grouped item No. 31, although the same commodities appear separately in the list. This was because they were free in the years when tolls were collected. Tolls having been abolished this item hereafter will not appear in the statistical tables in the above form. Item 12 includes flaxseed.

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THE STATEMENT following brings the capital expenditure on the Canals of the Dominion down to 31st March, 1908. It must be understood, however, that the total shown is apart from the outlay by the Imperial Government on the Carillon and Grenville Canal, as to which the records were lost in the destruction by fire of the Ordnance Office, Montreal, in 1852. The details are as follows :—

Canal.	Construction.	Enlargement.	Total.
	\$ cts.	\$ cts.	\$ cts.
St. Peter's.....	648,547 14		648,547 14
Lachine.....	2,589,532 85	9,211,525 18	11,801,058 03
Beauharnois.....	1,636,690 26		1,636,690 26
St. Lawrence River and Canals.....	18,442 85	3,346,874 72	3,365,317 57
Lake St. Louis.....		298,176 11	298,176 11
Lake St. Francis.....		75,906 71	75,906 71
Cornwall.....	1,945,624 73	5,288,557 87	7,234,182 60
Williamsburg { Farrans Point.....		877,090 57	10,473,624 10
Galops.....		6,106,939 73	
Rapide Plat.....		2,158,242 00	
Williamsburg.....	1,320,655 54	10,696 26	
Welland.....	7,693,824 03	20,388,805 83	28,082,629 86
Ste. Anne's.....	134,456 51	1,035,759 12	1,170,215 63
Carillon and Grenville.....	63,053 64	4,119,039 32	4,182,092 96
Culbute.....	382,776 46		382,776 46
Rideau.....	4,085,889 21		4,085,889 21
St. Ours.....	121,537 65		121,537 65
Chambly.....	637,214 66		637,214 66
Murray.....	1,248,820 26		1,248,820 26
Trent.....	5,773,664 71		5,773,664 71
Fay.....	489,599 23		489,599 23
Sault Ste. Marie.....	4,779,613 84		4,779,613 84
Soulanges.....	6,955,317 59		6,955,317 59
	40,525,261 16	52,917,613 42	93,442,874 58

Alterations have been made in the form of ship's report, looking to a better and more comprehensive classification of commodities than hitherto been provided.

Details of tonnage by canals and commercial articles will be found in the tables subjoined.

I have the honour to be, Sir,

Your obedient servant,

J. L. PAYNE,
Comptroller of Statistics.

CANAL STATISTICS FOR SEASON OF NAVIGATION, 1908

GRAIN PASSED DOWN WELLAND.

The quantity of barley, corn, oats, pease, rye and wheat passed down the Welland Canal, from ports west of Port Colborne for a period of twenty-seven years is as follows :—

QUANTITY PASSED DOWN TO MONTREAL.		To Ports in Ontario.	Quantity from U.S. Ports to U.S. Ports.
	Tons.	Tons.	Tons.
1882.....	180,694	.....	63,881
1883.....	186,814	10,650	121,876
1884.....	142,194	12,153	104,537
1885.....	96,569	11,909	117,346
1886.....	203,940	9,881	151,551
1887.....	185,034	11,838	134,868
1888.....	160,358	25,599	169,664
1889.....	267,769	19,075	213,766
1890.....	288,513	16,899	245,932
1891.....	295,509	6,805	202,710
1892.....	261,954	8,942	201,540
1893.....	501,806	25,555	222,958
1894.....	273,651	16,699	203,979
1895.....	231,491	32,096	133,823
1896.....	461,049	73,386	160,372
1897.....	560,254	53,257	157,756
1898.....	519,532	31,279	144,612
1899.....	332,746	40,197	68,011
1900.....	244,661	17,525	84,589
1901.....	151,566	13,732	83,370
1902.....	208,215	22,787	81,164
1903.....	351,936	29,062	111,828
1904.....	198,246	23,711	102,523
1905.....	341,431	42,061	129,270
1906.....	404,935	33,351	176,119
1907.....	635,573	42,032	163,295
1908.....	756,141	38,142	135,172

* Of the quantity of grain passed down to Montreal there were transhipped at Ogdensburg, in 1891, 17,817 tons ; in 1892, 4,341 tons ; in 1893, 71,445 tons ; in 1894, 23,030 tons ; in 1895, 18,987 tons ; in 1896, 77,355 tons ; in 1897, 89,659 tons ; in 1898, 40,257 tons ; in 1899, 48,828 tons ; in 1900, 38,403 tons ; in 1901, 17,387 tons ; in 1902, 34,060 tons ; in 1903, 40,641 tons ; none in 1904, 1905 ,1906, 1907 nor 1908.

During the last decade the quantity of agricultural products as above, passed down the Welland and St. Lawrence Canals to Montreal, has increased from 332,746 tons in 1899 to 756,141 tons in 1908, and the quantity passed down the Welland Canal from United States ports to United States, has increased from 68,011 to 135,172 tons for the same years.

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The quantity of barley, buckwheat, corn, oats, pease, rye and wheat, arrived at Montreal via Grand Trunk and Canadian Pacific Railways for a period of 13 years, is reported as follows:—

	Tons.
Pour 1896.....	153,717
1897.....	228,611
1898.....	293,391
1899.....	209,170
1900.....	229,624
1901.....	227,700
1902.....	263,861
1903.....	253,959
1904.....	154,625
1905.....	148,377
1906.....	386,963
1907.....	383,735
1908.....	285,262

The quantity of the same articles passed down the whole length of the St. Lawrence Canals to Montreal for the same period was:—

	Tons.
Pour 1896.....	495,898
1897.....	604,200
1898.....	575,097
1899.....	372,291
1900.....	295,928
1901.....	203,316
1902.....	242,225
1903.....	400,057
1904.....	220,076
1905.....	375,630
1906.....	449,673
1907.....	684,697
1908.....	776,374

Comparative shipments of grain by the St. Lawrence route, and rail and water via the State of New York, are as follows:

QUANTITY OF GRAIN TO SEA BOARD BY COMPETING ROUTES,

The quantity of grain and pease passed down the whole length of the St. Lawrence canal to Montreal, is as follows:—

	Tons.
For 1907.....	635,573
1908.....	756,141
Showing an increase of.....	<u>120,568</u>

The quantity of grain and pease carried to Montreal via Canadian Pacific and Grand Trunk Railways, is reported as follows:—

	Tons.
For 1907.....	383,735
1908.....	285,262
Showing a decrease of.....	<u>98,473</u>

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The quantity of grain arrived at the tide-water by New York canals, is reported as follows :—

	Tons.
For 1907.....	239,844
1908.....	183,927
Showing a decrease of.....	55,917

The quantity of grain carried to tide-water by the New York railways, is reported as follows :—

	Tons.
For 1907.....	8,579,555
1908.....	7,900,862
Showing a decrease of.....	678,693

The increases and decreases for 1908 as compared with 1907 on the several routes competing for the carrying trade to the sea board are as follows :—

	Increase.	Decrease.	Increase.	Decrease.
	Tons.	Tons.	Per cent.	Per cent.
On the St. Lawrence	120,568			
" Canadian Pacific and Grand Trunk Railways				
" New York Canals		55,917		
" " Railways		678,693		

By reference to Appendix U, it will be seen that the quantity of freight from ports west of Port Colborne to the United States ports, Oswego, Ogdensburg, &c., has decreased from 285,963 tons in 1897 to 227,047 tons in 1908, and the quantity to Ontario ports between Port Dalhousie and Cornwall, and an increase from 166,626 tons in 1897 to 200,520 tons in 1908. The quantity passed down to Montreal shows an increase from 581,047 tons in 1897 to 864,926 tons in 1908.

TRANSHIPMENT OF GRAIN.

The quantity of grain passed down the Welland Canal in Canadian and United States vessels to Kingston and Prescott for fifteen years, is as follows :—

In Canadian vessels there were in—

	Tons.
1894, 125 cargoes, with an aggregate quantity of	159,145
1895, 123 "	136,617
1896, 196 "	227,912
1897, 180 "	229,265
1898, 166 "	224,021
1899, 162 "	221,306
1900, 325 "	183,200
1901, 112 "	132,558
1902, 131 "	175,514
1903, 170 "	218,840
1904, 115 "	174,121
1905, 167 "	239,418
1906, 205 "	344,605
1907, 255 "	427,813
1908, 355 "	598,941

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In the United States vessels there were in—

			Tons.
1894,	84 cargoes, with an aggregate quantity of	106,236
1895,	56	"	73,987
1896,	158	"	217,978
1897,	197	"	285,847
1898,	339	"	464,852
1899,	167	"	205,571
1900,	259	"	163,575
1901,	135	"	123,229
1902,	135	"	136,652
1903,	219	"	273,986
1904,	118	"	150,359
1905,	235	"	273,344
1906,	178	"	269,800
1907,	263	"	413,087
1908,	271	"	330,514

One hundred and sixty-two Canadian and 49 American vessels took cargoes of 343,733 tons through to Montreal intact in 1908 ; 87 Canadian and 9 American of 135,582 in 1907 ; 74 Canadian and 10 American of 108,734 tons in 1906 ; 96 Canadian and 18 American of 180,206 in 1905 ; 56 Canadian and 16 American of 116,095 tons in 1904 ; 56 Canadian and 18 American of 99,582 tons in 1903 ; 19 Canadian and 17 American of 34,804 tons in 1902 ; 23 Canadian and 2 American of 17,303 tons in 1901, 15 of 7,924 tons in 1900, 2 of 558 tons in 1899, 7 of 2,426 in 1898, 7 of 2,324 in 1897, 3 of 1,176 in 1896, 4 of 1,344 tons in 1905, 2 cargoes of 810 tons in 1894, none in 1893, 2 in 1892 of 924 tons, and 3 in 1891 of 1,441 tons. Three vessels lightened a portion of their cargoes in 1901, 9 in 1900, 11 in 1899, 25 in 1898, 11 in 1897, 16 in 1896, 6 in 1895, 19 in 1894, 34 in 1893, 25 in 1892, and 44 in 1891 ; 222 vessels discharged the whole of their cargoes at Kingston in 1901, 540 in 1900, 316 in 1899, 473 in 1898, 359 in 1897, 335 in 1896, 169 in 1895, 188 in 1894, 369 in 1893, 220 in 1892, and 293 in 1891.

The quantity of grain transhipped at Port Colborne in 1908 and the four previous years is given below.

The total number of grain-laden vessels lightened at this port in 1908 was 69, against 93 the previous year.

The quantity of grain lightened was as follows :—

Articles.	1904.	1905.	1906.	1907.	1908.
	Bush.	Bush.	Bush.	Bush.	Bush.
Wheat	175,117	679,840	1,009,474	1,428,300	1,106,244
Corn	408,976	104,027	110,629	112,036	.....
Rye .....	.....	.....	.....	.....	.....
Oats	15,353	29,118	30,824	23,945
Barley.....	9,686	2,103	56,544
Flax Seed.....	39,040	49,628

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The quantity of wheat discharged at Port Colborne in 1908 and two previous years from vessels which did not enter the canal, is as follows :

	1906.	1907.	1908.
	Bush.	Bush.	Bush.
	383,437	74,014	715,347

WELLAND CANAL.

The total quantity of freight passed on the Welland Canal during the season of 1908 was 1,703,453 tons ; of this quantity 8,024 were way or local freight.

There were 1,292,493 tons of freight passed eastward, and 410,960 passed westward.

East and West bound Through Freight.

The total quantity of through freight passed through the whole length of the Welland Canal during the season of 1908 was 1,695,429 tons.

Of this quantity 1,285,229 tons were east bound and 410,200 west bound freight.

Of the east bound through freight, Canadian vessels carried 767,118 tons and United States vessels carried 518,111 tons ; and of the west bound through freight Canadian vessels carried 154,203 tons and United States vessels carried 255,997 tons, or a total of 921,321 tons for Canadian and 774,108 tons for American vessels.

ST. LAWRENCE CANALS.

The total quantity of freight passed through these canals during 1908 was 2,009,102 tons ; of this quantity 1,424,646 tons passed eastward and 584,456 passed westward.

East and West bound Through Freight.

The total quantity of through freight was 1,572,999 tons ; of this quantity 1,315,682 tons were east bound and 257,317 tons were west bound.

Way Freight.

Of the total quantity of (way) or local freight 108,964 tons were east bound and 327,139 tons west bound freight.

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THROUGH TRAFFIC BETWEEN MONTREAL AND PORTS ON LAKE ERIE, MICHIGAN, ETC.

The total quantity of through freights passed eastward and westward through the Welland and St. Lawrence canals, from Lake Erie to Montreal during fifteen years, is as follows :—

	Eastward. to Montreal. Tons.	Westward. from Montreal. Tons.
1894.....	292,191	9,439
1895.....	266,659	10,555
1896.....	480,077	10,050
1897.....	584,246	4,542
1898.....	538,108	4,436
1899.....	354,933	5,991
1900.....	288,251	6,217
1901.....	184,420	13,714
1902.....	250,475	25,289
1903.....	390,786	100,699
1904.....	278,328	71,512
1905.....	448,704	72,482
1906.....	554,231	96,791
1907.....	789,167	1,281
1908.....	864,926	3,472

THROUGH FREIGHT FROM UNITED STATES PORTS TO UNITED STATES PORTS.

The total quantity of through freight passed eastward and westward through the Welland Canal, from United States ports to United States ports, for a period of fifteen years, is as follows :—

	Eastward. Tons.	Westward. Tons.	Total. Tons.
1894.....	361,319	230,948	592,267
1895.....	255,259	214,520	469,779
1896.....	385,695	267,518	653,213
1897.....	353,863	210,831	564,694
1898.....	277,023	210,516	487,539
1899.....	225,491	135,038	360,529
1900.....	218,969	99,560	318,529
1901.....	190,476	83,543	274,019
1902.....	224,110	44,919	269,029
1903.....	221,074	149,151	370,225
1904.....	165,337	87,144	252,481
1905.....	190,547	112,549	303,096
1906.....	237,226	84,205	321,431
1907.....	218,997	177,660	396,657
1908.....	209,518	239,136	448,654

The total quantity of freight passed through the Welland Canal from United States ports to United States ports shows an increase of 51,997 tons as compared with the previous year ; and a decrease of 143,613 tons as compared with 1894.

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The following statement shows the aggregate number of vessels, and the total quantity of freight passed through the Welland Canal, and the quantity passed between United States ports during the years 1867 to 1908, inclusive.

Fiscal Year.	Aggregate number of Vessels.	Total quantity transported on the Welland Canal.	Quantity passed from United States ports to United States ports.
	No.	Tons.	Tons.
1867.. .. .	5,405	933,260	458,386
1868.. .. .	6,157	1,161,821	641,711
1869.. .. .	6,069	1,231,903	688,700
1870.. .. .	7,356	1,311,956	747,567
1871.. .. .	7,729	1,478,122	772,756
<i>Season of navigation.</i>			
1872.. .. .	6,063	1,333,104	606,627
1873.. .. .	6,425	1,506,484	656,208
1874.. .. .	5,814	1,389,173	748,557
1875.. .. .	4,242	1,038,050	477,809
1876.. .. .	4,789	1,099,810	488,815
1877.. .. .	5,129	1,175,398	493,841
1878.. .. .	4,429	968,758	373,738
1879.. .. .	3,960	865,664	284,043
1880.. .. .	4,104	819,934	179,605
1881.. .. .	3,332	686,506	194,173
1882.. .. .	3,334	790,643	282,806
1883.. .. .	3,267	1,005,156	432,611
1884.. .. .	3,138	837,811	407,079
1885.. .. .	2,738	784,928	384,509
1886.. .. .	3,589	980,135	464,478
1887.. .. .	2,785	777,918	340,501
1888.. .. .	2,647	878,800	434,753
1889.. .. .	2,975	1,085,273	563,584
1890.. .. .	2,882	1,016,165	533,957
1891.. .. .	2,594	975,013	553,800
1892.. .. .	2,615	955,554	541,065
1893.. .. .	2,843	1,294,823	631,667
1894.. .. .	2,412	1,008,221	592,267
1895.. .. .	2,222	869,595	469,779
1896.. .. .	2,766	1,279,987	653,213
1897.. .. .	2,725	1,274,292	564,694
1898.. .. .	2,384	1,140,077	487,539
1899.. .. .	2,202	789,770	360,529
1900.. .. .	2,399	719,360	318,529
1901.. .. .	1,547	620,209	274,019
1902.. .. .	1,568	665,387	269,029
1903.. .. .	1,787	1,002,919	370,225
1904.. .. .	1,433	811,371	252,481
1905.. .. .	1,595	1,092,050	305,096
1906.. .. .	1,536	1,201,967	321,431
1907.. .. .	1,982	1,614,132	396,743
1908.. .. .	2,351	1,703,453	448,654

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The total quantity of freight passed through the several divisions of the canals during the season of 1908 is as follows :

	Farm Stock.	Forest Produce of Wood.	Manufac- tures.	Merchan- dise.	Agricultural Products.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Welland.		70,647	126,892	496,983	1,008,931	1,703,453
St. Lawrence.	785	180,022	135,081	826,177	867,037	2,009,102
Chambly.	201	364,396	2,619	126,034	10,026	503,276
Ottawa	523	204,490	504	46,293	6,717	258,527
Rideau	30	33,225	6,518	43,859	6,008	89,640
St. Peters.	18	5,952	2,046	50,543	13,456	72,015
Murray.	8	603	4,478	19,055	1,757	25,901
Trent Valley.	340	65,377	1,152	14,004	817	81,690
Sault Ste. Marie	2	62,719	190,535	10,086,814	2,419,146	12,759,216

The total quantity of freight moved on the Welland Canal was 1,703,453 tons, of which 1,008,931 tons were agricultural products.

On the St. Lawrence canals the total quantity of freight moved was 2,009,102 tons, of which 867,037 were agricultural products, and 826,177 tons were merchandise.

On the Ottawa canals the total quantity of freight moved was 258,527 tons ; of this quantity 204,490 tons were the produce of the forest.

COMPARATIVE STATEMENT of the Commerce through the United States, St. Mary's Falls Canals and Canadian Sault Ste. Marie Canal, for the Seasons of 1907 and 1908.

	Traffic for 1908.		Total traffic for		Increase.	Decrease.
	United States canal.	Canadian canal.	Season 1908.	Season of 1907.	Amount.	Amount.
Vessels.....Number	9,891	5,293	15,184	20,440		5,256
Lockages. "	6,739	3,667	10,406	14,020		3,614
Tonnage registered.....Net Tons	21,487,499	9,638,887	31,126,386	44,117,079		12,990,693
" freight..... "	28,657,297	12,759,216	41,416,513	58,220,011		16,803,498
Passengers Number	23,079	30,227	53,306	63,535		10,229
Coal (hard)..... Net Tons	1,023,686	338,749	1,362,435	1,522,018		159,583
" (soft)..... "	6,494,563	2,051,360	8,545,923	9,909,905		1,353,982
Flour .....Barrels	3,767,493	1,847,157	5,614,650	6,515,435		900,785
Wheat.....Bushels	48,131,791	58,567,143	106,698,934	98,240,260	8,488,674	
Grain (excluding wheat). "	22,870,302	20,582,403	43,452,705	37,847,182	5,605,523	
Manufactured & pig iron. Net Tons	162,476	145,703	308,179	330,643	22,464	
Salt.....Barrels	448,510	100,744	549,254	460,872		88,382
Copper.....Net Tons	92,474	8,855	101,329	93,686	7,643	
Iron ore..... "	17,251,898	7,385,103	24,637,001	39,587,112		14,950,111
Lumber.....ft. B.M.	423,513,000	33,652,355	457,165,355	638,315,546		181,150,191
Silver ore.....Net Tons						
Building stone..... "	1,019	10,570	11,589	24,352		12,763
Unclassified freight..... "	482,780	340,817	823,597	1,115,529		291,932

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The United States canal was open to navigation during the season of—

1889.....	234 days	1899.....	231 days
1890.....	228 "	1900.....	238 "
1891.....	225 "	1901.....	230 "
1892.....	233 "	1902.....	256 "
1893.....	219 "	1903.....	249 "
1894.....	234 "	1904.....	223 "
1895.....	231 "	1905.....	245 "
1896.....	232 "	1906.....	249 "
1897.....	234 "	1907.....	233 "
1898.....	241 "	1908.....	231 "

The Canadian canal was open to navigation during the season of—

1895.....	87 days	1902.....	264 days
1896.....	218 "	1903.....	256 "
1897.....	238 "	1904.....	241 "
1898.....	243 "	1905.....	255 "
1899.....	239 "	1906.....	253 "
1900.....	238 "	1907.....	238 "
1901.....	246 "	1908.....	235 "

The average number of vessels passing per day through the two canals for the season of 1908 was over sixty-five.

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GRAIN FREIGHTS BY LAKE—SEASON OF 1907.

The following were the current rates on Wheat and Corn from Chicago, Buffalo, Depot Harbour, and Montreal; also to New York by Lake and Erie Canal, for each week during the season of navigation.

	To Buffalo.		To Ogdensburg.		To Depot Harbour.		To Montreal.		Erie Canal, Buffalo to New York.		*Chicago to New York, Lake and Canal.	
	Wheat per bush.	Corn per bush.	Wheat per bush.	Corn per bush.	Wheat per bush.	Corn per bush.	Wheat per bush.	Corn per bush.	Wheat per bush.	Corn per bush.	Wheat per bush.	Corn per bush.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
April 6	1 10	1 10										
" 13	1 14	1 14		4								
" 20	1 14	1 14		3 1/2		1 1/2	5 3/4	5 3/4				
" 27	1 14	1 14		3 1/2		1 1/2	5 3/4	5 3/4				
May 4	1 14	1 14	4 1/2	3 1/2								
" 11	1 14	1 14		3 1/2								
" 18	1 14	1 14		3 1/2								
" 25	1 14	1 14		3 1/2								
June 1	1 14	1 14	4 1/2	3								
" 8	1 14	1 14		4								
" 15	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 22	1 14	1 14	4 1/2	3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 29	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
July 6	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 13	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 20	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 27	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
Aug. 3	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 10	1 14	1 14		3 1/2		1 1/2			4 1/2	4 1/2	6 1/2	5 1/2
" 17	1 14	1 14	4	3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 24	1 14	1 14		3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 31	1 14	1 14		3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
Sept. 7	1 14	1 14		3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 14	1 14	1 14		3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 21	1 14	1 14		3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 28	1 14	1 14	4 1/2	3 1/2		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
Oct. 5	2 2	2 2		4		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 12	2 2	2 2		4		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 19	2 2	2 2	4 1/2	4		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2
" 26	2 2	2 2		4		1 1/2	5 1/4	5 1/4	4 1/2	4 1/2	6 1/2	5 1/2

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Nov.	2.....	1	4	6 1/2	5	4 1/2	7 1/2	6 3/4
"	9.....	2	4	6 1/2	5	4 1/2	7 1/2	6 3/4
"	16.....	2	4	6 1/2	5	4 1/2	7 1/2	6 3/4
"	23.....	1 1/2	4 1/2	6 1/2	5	4 1/2	7 1/2	6 3/4
"	30.....	1 1/2	6 1/2	5	4 1/2	7 1/2	6 3/4
Dec.	7.....	2	6 1/2	5	4 1/2	7 1/2	6 3/4

* Exclusive of Buffalo charges.

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AVERAGE LAKE FREIGHTS.

The following statement shows the average rates of lake freights on wheat and corn between Chicago and Buffalo during each month in the past ten years, the highest and lowest rate on wheat in each year, and the average rates on wheat each year in cents, per bushel :—

(Per Report of Secretary of Merchants' Exchange, Buffalo).

		May.	June.	July.	Aug.	Sept.	Oct.	Nov.
		cts.	cts.	cts.	cts.	cts.	cts.	cts.
1898	{ Wheat	1·3	0·1	0·9	1·2	1·4	2·5	2·3
	{ Corn	1·2	0·8	0·8	1·1	1·3	2·3	2·1
Highest rate, wheat, 1898, 3¼c. ; lowest, 1¼ ; average for the season, 1·5c.								
1899	{ Wheat	2 0	2·0	2·2	2·5	3·1	3·5	2·5
	{ Corn	1·8	1·9	2·0	2·3	3·2	3·4	2·3
Highest rate, wheat, 1899, 3¾c. ; lowest, 1¾c. ; average for the season, 2·5c.								
1900	{ Wheat	1·8	1·9	2·1	1·6	1·7	1·7	2·0
	{ Corn	1·6	1·7	2·0	1·5	1·6	1·5	1·8
Highest rate, wheat, 1900, 3c. ; lowest, 1¼c. ; average for the season, 1·8c.								
1901	{ Wheat	1·9	1·5	1·6	1·3	1·6	1·3	2·0
	{ Corn	1·8	1·3	1·4	1·2	1·5	1·2	1·2
Highest rate, wheat, 1901, 2½c. ; lowest, 1¼c. ; average for the season, 1·60c.								
1902	{ Wheat	1·3	1·3	1·2	1·6	1·5	1·7	1·9
	{ Corn	1·2	1·1	1·1	1·4	1·4	1·6	1·7
Highest rate, wheat, 1902, 2½c. ; lowest, 1¾c. ; average for the season, 1·5c.								
1903	{ Wheat	1·4	1·3	1·3	1·2	1·2	1·4	1·8
	{ Corn	1·3	1·2	1·2	1·0	1·0	1·3	1·6
Highest rate, wheat, 1903, 2¼c. ; lowest, 1¼c. ; average for the season, 1·4c.								
1904	{ Wheat	2·5	1·7	1·0	1·2	1·2	1·3	1·6
	{ Corn	2·5	1·3	0·8	1·0	1·1	1·2	1·5
Highest rate, wheat, 1904, 3c. ; lowest, 1c. ; average for the season, 1·5c.								
1905	{ Wheat	1·1	1·3	1·3	1·4	1·4	2·2	2·8
	{ Corn	1·0	1·2	1·1	1·2	1·3	2·0	2·7
Highest rate, wheat, 1905, 3c. ; lowest, 1¾c. ; average for the season, 1·7c.								
1906	{ Wheat	1·3	1·3	1·5	1·9	1·7	2·0	2·0
	{ Corn	1·2	1·2	1·4	1·8	1·6	1·9	1·7
Highest rate, wheat, 1906, 2¾c. ; lowest, 1¾c. ; average for the season, 1·7c.								
1907	{ Wheat	1·3	1·7	1·5	1·2	1·6	2·0	1·5
	{ Corn	1·2	1·6	1·4	1·1	1·5	1·8	1·3
Highest rate, wheat, 1907, 2c. ; lowest, 1¾c. ; average for the season, 1·5c.								

LAKE FREIGHT FROM DULUTH TO BUFFALO ON WHEAT (AS REPORTED BY THE SECRETARY OF THE MERCHANTS' EXCHANGE, BUFFALO, N.Y.)

The following statement shows the lake freight rates on wheat from Duluth to Buffalo, during the season 1907 :—

1907.		Wheat bushels.	1907.		Wheat bushels.
		cts.			cts.
April	22.....	2	Sept.	26.....	2
May	14.....	2¼	Oct.	1.....	2¼
"	21.....	2	"	12.....	2½
"	23.....	1¾	Nov.	6.....	2¼
July	6.....	2¼	"	8.....	2
"	13.....	2	"	9.....	1¾
"	17.....	1½	"	11.....	1¾
"	19.....	1	"	14.....	1
Aug.	7.....	1¼	"	19.....	1
"	19.....	1½	"	22.....	1¼
"	24.....	1¾	"	23.....	2
Sept.	10.....	1½	Dec.	3 To load after the 5th	2½
"	18.....	1¾			

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In 1885 the range of freight on wheat, Duluth to Buffalo, was $1\frac{1}{2}$ to 5c. ; in 1886, $3\frac{1}{4}$ to 8c. ; in 1887, 5 to 8c. ; in 1888, 2 to 5c. ; in 1889, 2 to 5c. ; in 1890, 2 to 5c. ; in 1891, $1\frac{1}{4}$ to $9\frac{1}{2}$ c. ; in 1892, $2\frac{1}{4}$ to 4c. ; in 1893, $1\frac{1}{4}$ to $3\frac{1}{2}$ c. ; in 1894, $1\frac{1}{4}$ to 3c. ; in 1895, 2 to 6c. ; 1896, $1\frac{1}{4}$ to 3c. ; in 1897, 1 to $2\frac{1}{2}$ c. ; in 1898, 1 to $3\frac{1}{2}$ c. ; in 1899, $2\frac{1}{2}$ to 6c. ; in 1900, $1\frac{1}{2}$ to $3\frac{3}{4}$ c. ; in 1901, $1\frac{1}{8}$ to $3\frac{3}{4}$ c. ; in 1902, 1 to $2\frac{1}{4}$ c. ; in 1903, $1\frac{1}{8}$ to $2\frac{3}{4}$ c. ; in 1904, 1 to 5c. ; in 1905, $1\frac{1}{4}$ to 4c. ; in 1906, $1\frac{3}{4}$ to 3c. ; and in 1907, 1 to $2\frac{1}{2}$ c. per bushel.

The first departure by lake, at Duluth in 1907, was April 27 ; in 1906, was April 13 ; in 1905, was April 8 ; in 1904, was May 14 ; in 1903, was April 9 ; in 1902 was on March 31 ; in 1901 was on May 6 ; in 1900 was on April 22 ; in 1899, on April 29 ; in 1898, was on April 16 ; in 1896, on April 22 ; and in 1895, on April 21. In 1894 season opened on April 19 ; in 1893, on May 8 ; in 1892 on April 21 ; in 1891, on April 30 ; in 1890, on March 26 ; in 1889, on April 20 ; in 1888, on May 12 ; in 1887, May 4 ; in 1886, on May 7.

Wheat was shipped at Kingston, Canada, per bushel, during the season of 1887, at $6\frac{1}{4}$ to $7\frac{3}{4}$ c. : in 1888, at 4 to 5c. ; in 1889, at — ; in 1890, $5\frac{3}{4}$, $5\frac{1}{2}$, $4\frac{1}{2}$, $4\frac{1}{4}$, 4c. ; in 1891, during May, $3\frac{3}{4}$, $3\frac{1}{2}$, $2\frac{1}{2}$ c. ; during June 3c. ; and on July 25, $2\frac{1}{2}$ c. : in 1892, 5c. in April ; 5 to $5\frac{1}{4}$ c. in May ; 4c. in June ; $4\frac{1}{2}$ c. in July ; 3c. in August ; 6 to $6\frac{1}{4}$ c. in October ; in 1903, ranged from $5\frac{1}{4}$ to $4\frac{1}{2}$ c. in April ; $4\frac{1}{2}$ to $4\frac{3}{4}$ c. in May ; 4 to $3\frac{1}{2}$ c. in June ; $2\frac{3}{4}$ to 3c. in July ; $3\frac{1}{2}$ to $3\frac{3}{4}$ c. in September ; no figures quoted after that date. In 1894 ranged from $3\frac{1}{4}$ to $3\frac{1}{2}$ c. in May ; $3\frac{1}{2}$ c. in June ; $2\frac{1}{2}$ c. in July ; $2\frac{1}{2}$ to $3\frac{1}{4}$ c. in August ; 4c. in September, and $4\frac{1}{2}$ c. in October. On August 25 and November 3, 1894, wheat to Ogdensburg, at $3\frac{1}{4}$ c. and $4\frac{1}{2}$ c. respectively. In 1895, wheat to Kingston from 3c. to 5c. In 1896, wheat to Kingston from 3c. to $5\frac{1}{2}$ c. ; and in 1897, wheat to Kingston from 3c. to $3\frac{1}{2}$ c., according to the time of year ; 1898 to 1899 not given.

LAKE FREIGHTS FROM TOLEDO TO BUFFALO ON WHEAT.

The following statements show the ruling rates of lake freights on wheat from Toledo to Buffalo, during the season of 1907 on the dates specified, as reported by the Secretary, Merchants' Exchange, Buffalo.

Date, 1907.	Wheat and Corn per Bushel.	Date, 1907.	Wheat and Corn per bushel.
	Cts.		Cts.
Opening to April 1.....	1	April 1 to July 14.....	$1\frac{1}{4}$
July 14 to August 1.....	$1\frac{1}{2}$ - $1\frac{1}{8}$	August 1 to close.....	$1\frac{1}{4}$ - $1\frac{1}{2}$

The range for 1886 was $1\frac{3}{4}$ to 3c. ; for 1887, $2\frac{1}{4}$ to 3c. ; for 1888, $1\frac{1}{2}$ to $2\frac{1}{8}$ c. ; for 1889, $1\frac{3}{4}$ to 2c. ; for 1890, $1\frac{1}{2}$ to 2c. ; 1891, 1 to 3c. ; for 1892, $1\frac{1}{2}$ to $2\frac{1}{2}$ c. ; for 1893, 1 to 2c. ; for 1894, 1 to 2c. ; for 1895, 1 to $2\frac{1}{4}$ c. ; for 1896, $1\frac{1}{4}$ to $1\frac{3}{4}$ c. ; for 1897, 1 to $1\frac{1}{4}$ c. ; for 1898, 1 to $1\frac{1}{2}$ c. ; for 1899, $1\frac{1}{2}$ to 2c. ; for 1900, $1\frac{1}{2}$ to 2c. ; for 1901, $1\frac{1}{4}$ to $1\frac{1}{2}$ c. ; for 1902, $1\frac{1}{8}$ to 2c. ; for 1903, $1\frac{1}{8}$ to $1\frac{1}{2}$ c. ; for 1904, 1 to $1\frac{3}{4}$ c. ; for 1905, 1 to $1\frac{1}{2}$ c. for 1906, 1 to $1\frac{1}{2}$ c. ; and for 1907 $1\frac{1}{8}$ to $1\frac{1}{2}$ c. per bushel.

From Toledo to Ogdensburg, wheat and corn shipped at 6 to 7c. in 1887 ; at $4\frac{1}{2}$ to 6c. for wheat and 5c. for corn in 1888 ; and 5 to $5\frac{7}{8}$ c. for wheat in 1889 per bushel. From Toledo, on October 8, 1887, corn shipped to Kingston at $3\frac{1}{2}$ c., and on November 12, at $4\frac{1}{2}$ c. per bushel. In 1888, corn, Toledo to Kingston $4\frac{1}{2}$ to 3c. ; and wheat at $3\frac{1}{2}$ to 3c. per bushel. In 1889, wheat, Toledo to Kingston, 3c. ; and in 1891, rye, Toledo to Kingston at 3c. per bushel. From Toledo, on June 2, 1887, wheat shipped to Montreal by propeller at $6\frac{1}{2}$ c. ; on June 14, corn at same price ; but on September 26, the rate on corn was only 5c. per bushel. In 1888, corn, Toledo to Montreal, at 6 to $5\frac{3}{4}$ c., and wheat at $5\frac{1}{2}$ c. per bushel. From 1889 to 1899, no shipments to Montreal or other places in Canada reported.

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CANAL FREIGHT FROM BUFFALO TO NEW YORK.

The following shows the changes in the ruling rates of freight to New York from Buffalo, on the days specified in 1907 (as reported by the Secretary, Merchants' Exchange, Buffalo).

Date, 1907.	Wheat, Bushels.	Corn, Bushels.	Date, 1907.	Wheat, Bushels.	Corn, Bushels.
	Cts.	Cts.		Cts.	Cts.
May 1.....	5	4½	Nov. 4, to close.....	5½	5

Freight on oats varied from 3¼ to 3½c. per bushel. Pine lumber, per 1,000 feet, was carried from Buffalo to Tonawanda to New York as follows: Opened at \$2.00; June, \$2.00; July, \$2.00; August, \$2.00; September, \$2.25; October, \$2.25; to close. Rates to Albany opened \$2.50; June, \$2.50; July, \$2.50; August, \$2.50; September, \$2.75; October, \$2.75 to close.

AVERAGE CANAL FREIGHTS.

BUFFALO TO NEW YORK.

The following statement shows the average rates of canal freights on wheat and corn between Buffalo and New York during each month in the past ten years, and the highest and lowest rates on wheat and average rate on wheat on each:—

(Reported by Sec. Merchants' Exchange, Buffalo.)

Grain.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.
	cts.	cts.	cts.	cts.	cts.	cts.	cts.
1898 { Wheat.....	3·0	2·9	2·8	2·7	2·6	3·0	3·0
1898 { Corn.....	2·5	2·3	2·4	2·1	2·2	2·6	2·6
Highest rate, wheat, 1898, 3·4c. ; lowest, 2·5c. ; average for the season, 2·8c.							
1899 { Wheat.....	2·5	2·7	2·4	2·5	2·5	3·6	4·2
1899 { Corn.....	2·3	2·3	2·1	2·1	2·2	3·0	3·5
Highest rate, wheat, 1899, 4·5c. ; lowest, 2·5c. ; average for the season, 2·8c.							
1900 { Wheat.....	2·4	2·2	2·3	2·3	2·2	2·7	3·5
1900 { Corn.....	2·1	2·0	2·1	2·0	2·0	2·4	3·0
Highest rate, wheat, 1900, 3½c. ; lowest, 2c. ; average for the season, 2·5c.							
1901 { Wheat.....	3·4	3·2	3·2	3·2	3·3	4·0	4·1
1901 { Corn.....	2·7	2·7	2·8	2·9	3·1	3·7	3·8
Highest rate, wheat, 1901, 4¾c. ; lowest, 3¼c. ; average for the season, 3·5c.							
1902 { Wheat.....	4·0	3·8	3·3	3·3	3·8	4·0	4·1
1902 { Corn.....	3·6	3·4	3·1	3·1	3·5	3·7	3·8
Highest rate, wheat, 1902, 4½c. ; lowest, 3¾c. ; average for the season, 3·8c.							
1903 { Wheat.....	4·1	4·1	4·2	4·2	4·0	3·7	3·7
1903 { Corn.....	3·7	3·7	3·8	3·8	3·6	3·3	3·3
Highest rate, wheat, 1903, 4¼c. ; lowest, 3¾c. ; average for the season, 4c.							
1904 { Wheat.....	3·5	3·2	2·7	2·6	2·8	3·5	3·7
1904 { Corn.....	3·0	2·7	2·4	2·1	2·4	3·0	3·1
Highest rate, wheat, 1904, 3¾c. ; lowest, 2½c. ; average for the season, 3·2c.							
1905 { Wheat.....	4·0	3·4	3·3	3·3	3·6	4·3	5·0
1905 { Corn.....	3·6	3·0	3·0	3·0	3·2	4·1	4·8
Highest rate, wheat, 1905, 5c. ; lowest, 3¾c. ; average for the season, 3·9c.							
1906 { Wheat.....	4·0	4·0	4·0	4·0	4·1	4·6	5·0
1906 { Corn.....	3·6	3·6	3·6	3·6	3·7	4·3	4·6
Highest rate, wheat, 1906, 5c. ; lowest, 4c. ; average for the season, 4¼c.							
1907 { Wheat.....	5·0	5·0	5·0	5·0	5·0	5·0	5·5
1907 { Corn.....	4·6	4·6	4·6	4·6	4·6	4·6	5·0
Highest rate, wheat, 1907, 5½c. ; lowest, 5c. ; average for the season, 5c.							

NOTE.—Canals free of tolls since 1882.

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FREIGHT, TOLLS, ELEVATING AND STORAGE RATES COMPARED.

The following statement shows the receipts of grain and flaxseed at Buffalo, the average canal freight on wheat, and the tolls on wheat to New York, and the elevating and storage rates at Buffalo for a series of years (as reported by Secretary, Merchants' Exchange, Buffalo):—

Year.	Grain received.	Average Canal Freight on Wheat.	Tolls on Wheat.	Elevating, including Storage.
	Bush.	Cts.	Cts.	Cts.
1870.....	32,208,039	11·2	3·1	1½
1871.....	61,319,313	12·6	3·1	1½
1872.....	58,703,666	13·0	3·1	1½
1873.....	65,498,955	11·4	3·1	1½
1874.....	55,660,198	10·0	3·1	1½
1875.....	52,833,451	7·9	2·0	1
1876.....	44,207,121	6·6	2·0	1
1877.....	61,822,292	7·4	1·0	1
1878.....	78,828,443	6·0	1·0	1
1879.....	75,089,768	6·8	1·0	1
1880.....	105,133,009	6·5	1·0	1
1881.....	56,389,827	4·7	1·0	1
1882.....	51,501,503	5·4	1·0	1
1883.....	65,722,080	4·9	None.	1
1884*.....	58,011,800	4·2	do	1
1885*.....	52,671,090	3·8	do	1
1886*.....	75,570,850	5·0	do	1
1887*.....	87,073,570	4·6	do	1
1888*.....	73,977,390	3·4	do	1
1889*.....	92,290,550	4·8	do	1
1890*.....	91,994,680	3·8	do	1
1891*.....	135,315,510	3·5	do	1
1892*.....	138,872,560	3·5	do	1
1893*.....	140,796,410	4·6	do	1
1894*.....	105,435,577	3·2	do	1
1895*.....	121,225,497	2·2	do	1
1896*.....	172,474,664	3·7	do	1
1897*.....	204,964,103	2·8	do	1
1898*.....	221,383,945	2·8	do	1
1899*.....	153,393,184	3·0	do	1
1900*.....	157,655,968	2·5	do	1
1901.....	132,646,828	3·5	do	1
1902.....	124,624,386	3·8	do	1
1903.....	140,438,822	4·0	do	1
1904.....	100,838,000	3·2	do	1
1905.....	126,465,729	3·9	do	1
1906.....	136,066,528	4·2	do	1
1907.....	132,438,798	5·0	do	1

NOTE.—Prior to 1870 tolls 6·21 cents per bushel, and the elevating charge 2 cents per bushel.
* Including flaxseed.

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AVERAGE FREIGHT CHARGES PER BUSHEL.

For the transportation of Wheat and Corn from Chicago to New York for a series of years.

(From Report of Board of Trade, Chicago.)

Year.	CORN.			WHEAT.		
	By lake and canal.	By lake and rail.	By all rail.	By lake and canal.	By lake and rail.	By all rail.
	\$	\$	\$	\$	\$	\$
1858.....	.127	.....	.3619	.1550	.....	.3861
1859..	.1570	.....	.3248	.1663	.....	.3480
1860.....	a .0833	.....	.3248	a .095	.....	.3480
1861.....	a .1062	.....	.3881	a .1210	.....	.4158
1862.....	a .0957	.....	.4480	a .1062	.....	.4800
1863.....	a .063	.....	.4592	a .072	.....	.4920
1864.....	a .09	.....	.5600	a .052	.....	.60
1865.....	a .0864	.....	.4188	a .0894	.....	.4488
1866.....	a .1075	.....	.4312	a .1377	.....	.4620
1867.....	a .0511	.....	.4176	a .08	.....	.4475
1868.....	a .0604	.....	.3532	a .0802	.....	.3784
1869.....	a .0584	.2355	.3320	a .0651	.2520	.3557
1870.....	a .16	.2220	.28	a .0677	.2250	.30
1871.....	a .0754	.2372	.2968	a .0687	.2542	.3180
1872.....	a .1072	.2660	.3266	a .1110	.2950	.3499
1873.....	a .0816	.2298	.2893	a .0917	.2461	.3102
1874.....	a .0382	.1388	.2450	a .0400	.1907	.2625
1875.....	a .034	.1303	.2240	a .0378	.1389	.2400
1876.....	b .0875	.1079	.1574	b .0982	.1136	.1686
1877.....	b .0959	.1406	.1890	b .1100	.1546	.2050
1878.....	b .0883	.1053	.1652	b .0966	.1209	.1770
1879.....	b .1049	.1220	.1456	b .1187	.1313	.1774
1880.....	b .1341	.1443	.1748	b .1313	.1580	.1980
1881.....	b .0777	.0942	.1340	b .0867	.1049	.1440
1882.....	b .0672	.1028	.1350	b .0723	.1091	.1447
1883.....	b .0803	.11	.1512	b .0901	.1163	.1620
1884.....	b .0655	.085	.1232	b .07	.10	.1320
1885.....	b .063	.0801	.1232	b .0654	.0902	.1320
1886.....	b .0845	.1120	.14	b .0910	.12	.1500
1887.....	b .0850	.1120	.1470	b .0950	.12	.1575
1888.....	b .0671	.1026	.1354	b .0705	.1114	.1450
1889.....	b .0632	.0819	.126	b .0692	.0897	.1500
1890.....	b .0593	.0732	.1136	b .0676	.0852	.1430
1891.....	b .0632	.0753	.1400	b .0695	.0857	.1500
1892.....	b .0595	.0721	.1296	b .0645	.0759	.1380
1893.....	b .0718	.0797	.1365	b .0766	.0848	.1463
1894.....	b .0493	.0650	.1232	b .0511	.0700	.1320
1895.....	b .0450	.0640	.1029	b .0486	.0696	.1189
1896.....	b .0575	.0615	.1050	b .0619	.0661	.1200
1897.....	b .0453	.0692	.1143	b .0522	.0742	.1250
1898.....	† .0381	.0441	.0980	† .0445	.0491	.1200
1899.....	† .0508	.0583	.1008	† .0581	.0663	.1160
1900.....	† .0407	.0472	.0919	† .0449	.0510	.0896
1901.....	† .0461	.0516	.0921	† .0511	.0554	.0988
1902.....	† .0483	.0551	.0994	† .0526	.0589	.1062
1903.....	† .0485	.0578	.1054	† .0540	.0637	.1129
1904.....	† .0363	.0482	.1038	† .0473	.0550	.1112
1905.....	† .0476	.0519	.0940	† .0553	.0640	.0990
1906.....	† .0551	.0572	.0952	† .0603	.0635	.1020
1907.....	† .0612	.0620	.1017	† .0665	.0709	.1090

a To Buffalo only. b Including Buffalo charges and tolls. ‡ Exclusive of Buffalo charges.

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FOREIGN FREIGHT RATES.

ANNUAL average Freight Rates on Grain, Flour and Provisions (per 100 lbs.) from Chicago to European Ports, by all Rail to Sea-board and thence by Steamers.

Shipped to	Articles.	1907.	1906.	1905.	1904.	1903.
		\$	\$	\$	\$	\$
Liverpool...	Grain.....	.1922	.1875	.1916	.2019	.2268
"	Sacked flour.....	.2125	.2050	.2240	.2100	.2519
"	Provisions.....	.4085	.4100	.3849	.3656	.4190
Glasgow...	Grain.....	.1967	.1925	.2000	.2238	.2443
"	Sacked flour.....	.2391	.2360	.2250	.2320	.2538
"	Provisions.....	.4688	.4563	.4323	.4406	.4688
London...	Grain.....	.2054	.1925	.2023	.2150	.2356
"	Sacked flour.....	.2363	.2250	.2364	.2225	.2519
"	Provisions.....	.4626	.4626	.4088	.4406	.4406
Antwerp.....	"	.4556	.4761	.4370	.4828	.4969
Hamburg.....	"	.4600	.4900	.4575	.4600	.4700
Amsterdam.....	"	.4500	.4600	.4542	.4200	.4200
Rotterdam.....	"	.4500	.4600	.4553	.4200	.4200
Copenhagen.....	"	.5100	.5100	.4866	.4688	.4969
Stockholm.....	"	.5300	.5350	.5147	.4969	.5250
Stettin.....	"	.4900	.5000	.4818	.4688	.4969
Bordeaux.....	"	.5500	.5300	.5145	.5625	.5625

LAKE FREIGHTS ON COAL FROM BUFFALO TO CHICAGO AND OTHER PORTS.

The following statement shows the average freight rate on Coal (per net ton, in cents) from Buffalo to the ports named, during the seasons of 1906 and 1907.

(Buffalo Merchants' Exchange.)

	1906.	1907.
Freight on hard Coal, Buffalo to Chicago, per ton.....	46	40
" " Milwaukee "	45	40
" " Duluth "	39	31

A-TABLE showing the total Tonnage of the undermentioned Articles moved Up and Down.

Year.	VEGETABLE FOOD.						
	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles. †
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869*.....	45,674	313,825	120,599	20,951	.....	904	1,937
1872.....	26,651	239,998	254,902	6,035	7,752	64	2,745
1873.....	30,665	355,847	180,169	8,225	1,194	3	3,777
1874.....	24,019	413,212	181,151	18,871	5,954	513	8,677
1875.....	13,964	253,835	103,749	35,751	3,383	917	6,337
1876.....	15,778	201,906	144,501	18,455	24,496	1,454	3,198
1877.....	13,558	253,953	169,196	19,870	2,810	2,439	2,355
1878.....	9,121	191,982	185,931	10,979	3,088	.....	2,302
1879.....	10,710	274,570	144,506	4,655	1,239	440	2,444
1880.....	12,679	242,020	163,738	17,772	477	1,016	1,480
1881.....	9,959	127,832	101,075	24,509	.....	1,844	2,086
1882.....	12,261	215,056	54,799	20,126	611	3,226	403
1883.....	13,471	152,794	182,269	10,436	731	1,642	10,983
1884.....	13,683	144,851	118,811	7,155	10,746	1,320	9,168
1885.....	13,334	124,206	117,536	15,801	1,116	.....	1,912
1886.....	19,474	154,169	219,442	1,595	4,911	564	14,657
1887.....	23,949	221,927	114,938	9,574	12,050	.....	12,533
1888.....	16,983	160,963	194,886	5,906	26,629	811	13,608
1889.....	7,931	126,664	353,595	4,272	28,356	2,673	18,552
1890.....	14,461	118,002	327,394	10,830	27,728	1,549	20,876
1891.....	13,517	198,658	185,180	8,113	52,959	65,888	28,042
1892.....	17,046	232,019	192,548	6,433	37,173	9,392	32,815
1893.....	15,235	258,392	441,092	18,599	31,283	3,671	36,981
1894.....	33,628	270,993	169,233	28,353	27,962	567	60,673
1895.....	44,044	203,088	164,894	8,689	18,236	1,007	46,463
1896.....	42,425	320,563	320,444	11,368	28,178	9,405	56,591
1897.....	9,065	324,743	390,615	14,173	25,161	8,483	44,674
1898.....	5,578	207,647	437,861	12,286	17,502	16,127	23,182
1899.....	11,625	197,732	204,004	2,907	24,037	923	18,460
1900.....	10,968	137,800	163,509	4,035	41,055	3,538	14,815
1901.....	18,978	151,586	67,756	7,119	28,485	2,961	14,024
1902.....	22,282	225,171	67,647	7,418	11,232	4,079	12,963
1903.....	25,998	259,031	210,758	14,656	7,911	4,904	13,994
1904.....	35,049	165,138	116,444	27,171	16,582	.....	13,184
1905.....	38,512	254,458	180,921	55,432	36,072	1,711	9,883
1906.....	18,294	326,798	211,805	31,446	49,306	1,784	10,739
1907.....	22,739	488,565	271,693	13,240	73,369	2,270	22,683
1908.....	23,209	732,131	127,402	31,172	33,423	6,667	21,668

* Fiscal. † Apples, meal of all kinds, pease, potatoes.

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through the Welland Canal, during a period of thirty-eight years, ended Dec. 31, 1908.

HEAVY GOODS.							
Total.	Railway Iron.	Other Iron.	Salt.	Iron and Salt having paid full tolls on St. Lawrence Canals.	Coal.	Ores.	Total.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
503,860	46,806	16,924	91,575	37,153	103,126	58,781	275,623
538,147	26,217	17,141	50,540	44,243	186,932	98,605	3,678
579,880	6,923	20,754	40,850	17,157	339,016	118,685	43,387
647,397	6,032	12,068	23,309	9,579	323,503	56,825	431,316
417,936	1,517	7,588	13,509	9,962	321,306	43,683	397,565
409,788	51	7,997	30,300	20,327	288,211	81,654	378,540
464,181	9,630	9,696	9,173	3,983	323,869	42,758	399,109
403,403	10	11,518	3,980	12,686	295,318	15,229	338,741
438,564	2,782	5,797	7,174	17,796	192,957	19,164	245,670
442,182	5,360	4,812	413	22,273	109,986	34,139	176,983
269,395	4,585	7,013	10	30,682	128,113	18,785	189,188
306,482	.....	5,348	50	17,327	237,559	23,700	283,984
373,326	1,237	7,922	66	17,037	307,058	31,785	365,105
305,734	698	652	461	3,242	274,471	53,205	332,729
273,905	78	2,055	597	14,243	248,272	26,728	291,973
414,812	166	6,123	48	12,324	271,356	27,447	317,464
394,971	1,351	5,636	.....	6,715	145,193	13,866	172,761
419,786	93	3,220	316	13,617	223,871	16,872	257,989
542,043	47	2,479	1,254	20,269	268,305	2,435	294,789
519,291	.....	753	1,027	28,047	202,384	8,138	240,349
367,177	127	1,610	2,567	7,953	224,644	3,415	240,316
527,426	163	1,567	878	3,666	211,616	355	218,245
805,253	6	2,075	374	8,139	233,096	.....	243,690
591,409	.....	3,072	159	977	203,608	.....	207,816
486,421	185	6,245	54	2,819	158,866	1,140	169,309
788,974	1,192	6,332	82	3,264	223,445	1,158	235,473
816,914	7,206	17,012	227	590	176,226	.....	201,261
720,183	1,444	11,722	799	734	162,336	13,433	190,468
459,688	567	6,361	1,282	1,318	97,732	26,125	133,385
375,720	.....	8,190	533	4,800	47,392	58,400	119,315
290,909	83	6,094	327	8,773	49,480	99,487	164,244
350,792	64	7,488	.....	15,201	64,014	22,480	109,247
537,252	488	5,407	2,554	45,846	147,884	18,323	220,502
373,568	11,381	9,957	1,093	4,164	113,525	39,683	179,803
576,989	2,651	10,912	226	4,221	172,642	22,381	213,033
650,172	3,747	8,493	100	16,204	147,587	5,862	181,993
894,559	961	4,923	246	18,761	267,212	25,040	317,143
975,672	35,726	429	316,921	18,004	080

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B.—TABLE showing the Total Way and Through Tonnage of the undermentioned Articles cleared downward on the Welland Canal during a series of thirty-eight years, ended December 31, 1908.

VEGETABLE FOOD.

Year.	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	Other Articles. †	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869.....	44,110	310,090	119,541	3,920	.....	680	1,541	479,882
1872.....	26,648	231,056	254,534	693	7,594	64	2,300	524,889
1873.....	30,660	345,720	180,042	643	1,188	3	3,557	563,813
1874.....	24,017	406,157	181,128	377	5,953	.....	3,301	620,933
1875....	13,930	248,555	103,477	813	3,383	500	4,304	374,962
1876.....	15,735	194,559	144,501	1,110	24,496	1,454	2,949	384,807
1877.....	13,588	248,894	169,185	10,216	2,810	2,405	1,833	448,931
1878.....	8,854	188,106	185,931	1,217	3,088	.....	2,100	389,296
1879	10,588	271,545	114,276	803	1,196	.....	2,387	430,795
1880	12,467	240,601	162,891	.....	477	.....	1,418	417,853
1881	9,655	121,393	103,075	252	... ..	6	1,371	235,752
1882	12,205	205,876	54,797	537	.....	1,954	225	275,594
1883	13,256	146,741	182,143	975	731	518	10,971	355,335
1884	13,626	135,804	118,811	270	10,746	477	9,018	288,752
1885	13,322	114,090	117,536	618	1,116	.....	1,628	248,310
1886 ...	19,418	146,151	218,897	... ..	4,891	.....	14,581	403,928
1887.....	23,940	210,755	114,938	1,711	12,050	.....	12,149	375,543
1888.....	16,973	150,833	194,886	555	26,629	811	13,358	404,045
1889.....	7,922	120,498	353,595	197	28,356	1,918	18,273	530,759
1890.....	14,461	114,924	327,394	6,519	27,728	1,121	20,836	512,983
1891	13,517	196,326	185,177	8,113	52,959	65,071	27,895	549,058
1892	17,046	229,569	192,548	6,433	37,173	9,392	32,548	524,709
1893 .	15,232	257,203	441,092	18,461	31,283	3,671	36,981	803,923
1894	33,628	270,514	169,233	28,353	27,962	.....	60,587	590,277
1895	43,895	202,636	164,894	8,689	18,236	.....	46,435	484,785
1896	42,159	319,388	320,444	11,368	28,178	8,970	54,031	784,538
1897	9,025	322,993	390,615	14,173	25,127	8,483	44,651	815,067
1898	5,578	206,313	437,849	12,286	17,491	16,127	23,170	718,814
1899 ..	11,625	197,732	204,004	2,424	23,541	923	18,440	458,689
1900	10,968	137,800	163,509	3,449	40,256	3,538	14,802	374,322
1901	18,937	151,325	67,756	7,119	28,281	2,961	14,021	290,400
1902	22,282	223,499	67,647	7,418	11,223	4,079	12,912	349,060
1903 .	25,997	257,370	210,758	14,656	7,911	4,904	13,982	535,578
1904	35,046	164,515	116,444	27,171	16,582	....	13,157	372,915
1905	38,512	247,599	180,921	55,432	36,072	1,711	9,882	570,129
1906	18,227	326,789	111,243	31,446	49,306	1,411	10,739	549,161
1907	22,689	488,565	271,693	13,240	73,369	2,270	22,683	894,509
1908	23,187	730,751	127,402	31,172	33,423	6,667	21,668	974,270

* Fiscal. † Apples, meal all kinds, pease, potatoes.

C.—TABLE showing the Tonnage of the undermentioned Articles passed through the Welland Canal in transit between Ports in the United States during a series of thirty-eight years, ended December 31, 1908.

YEARS.	VEGETABLE FOOD.							HEAVY GOODS.						
	Flour.	Wheat.	Corn.	Barley.	Oats.	Rye.	*Other articles.	Total.	Railway Iron.	Other Iron.	Salt.	Coal.	Ores.	Total.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1869	30,681	211,085	91,149	2,942	.....	667	1,006	337,530	68,064	14,334	89,086	28,566	35,912	235,962
1872	10,482	124,695	89,761	1,391	7,400	.....	608	234,337	24,040	13,239	49,843	95,741	59,401	224,264
1873	10,805	127,727	101,329	1,920	1,188	3	392	243,366	4,659	13,826	40,507	170,242	62,942	292,176
1874	8,230	229,053	125,627	.....	5,948	.....	5,368	374,226	5,742	8,941	22,888	203,673	19,651	260,895
1875	1,881	113,832	54,188	2,641	2,946	500	1,920	177,908	14	4,123	12,931	192,767	34,616	244,454
1876	5,187	96,247	58,138	.....	1,905	525	403	162,405	.....	5,531	29,395	167,110	25,808	227,844
1877	3,342	107,396	65,260	1,603	2,314	258	413	180,586	8,976	8,688	8,336	172,868	41,107	239,975
1878	1,316	65,542	60,026	859	277	.....	341	128,361	.....	10,713	3,892	150,583	13,535	178,723
1879	159	53,791	33,401	.....	464	.....	11	87,826	2,405	3,648	6,318	118,573	17,797	148,741
1880	.....	30,611	16,122	1,551	296	.....	.....	48,580	4,743	3,515	371	65,945	18,380	92,954
1881	.....	34,320	30,031	924	.....	.....	10	65,285	1,313	5,570	.....	83,858	6,464	97,205
1882	107	30,227	32,433	537	.....	684	14	64,002	.....	4,076	.....	158,552	14,533	177,161
1883	2,041	54,382	66,128	735	731	.....	8,579	132,496	1,209	6,901	8	196,462	24,891	229,471
1884	1,715	40,956	53,707	.....	9,874	.....	8,170	114,422	698	599	.....	210,790	15,100	227,187
1885	124	53,235	63,229	732	882	.....	1	118,203	.....	1,594	.....	198,416	15,029	215,039
1886	7,591	53,258	94,048	.....	4,790	.....	13,201	172,888	156	5,328	1	189,964	11,364	206,813
1887	11,780	37,678	83,431	1,732	12,050	179	10,859	157,530	15	4,406	56	82,780	627	87,828
1888	8,563	39,999	102,974	2	26,510	.....	11,598	189,825	63	1,601	.....	173,259	2,309	177,288
1889	5,017	39,229	147,045	.....	27,492	.....	17,225	236,208	.....	1,587	896	227,476	1,204	231,163
1890	9,204	31,527	180,842	6,519	27,030	.....	20,497	275,619	.....	504	208	162,231	1,620	164,563
1891	6,802	32,097	127,494	8,113	52,823	.....	26,115	253,444	.....	292	705	186,572	1,773	189,342
1892	11,018	26,950	131,222	6,433	36,935	.....	31,992	244,550	.....	576	2	183,895	.....	184,473
1893	6,588	28,187	198,777	16,751	23,870	864	36,352	311,389	.....	344	.....	206,827	.....	207,171
1894	17,795	53,846	105,329	28,095	27,621	.....	60,462	198,358	.....	297	.....	188,521	.....	188,818
1895	10,169	27,881	100,512	7,904	17,020	.....	46,316	209,802	181	246	.....	149,490	.....	149,917
1896	16,224	34,878	175,094	11,128	16,137	490	46,456	300,407	.....	146	.....	207,348	.....	207,494
1897	7,237	28,919	169,057	14,173	14,969	.....	41,887	300,407	965	15	4	165,143	.....	166,123
1898	4,212	11,268	150,667	6,909	12,732	1,197	22,671	276,242	770	339	553	156,814	.....	157,927
1899	6,118	12,926	81,777	2,424	19,526	923	18,198	209,656	351	1,646	.....	88,931	.....	91,481
1900	7,966	18,771	60,545	2,402	39,706	2,149	14,243	145,787	.....	953	.....	46,024	.....	46,977
1901	17,165	23,557	55,531	7,119	26,344	.....	14,016	143,732	83	80	105	46,702	.....	46,970
1902	13,785	32,639	66,111	7,418	10,006	.....	12,675	142,634	.....	214	.....	12,911	.....	13,125
1903	6,082	15,439	108,917	11,433	6,112	4,174	13,568	165,725	459	.....	.....	113,072	.....	113,535
1904	8,556	14,269	60,964	16,621	16,497	.....	13,079	129,986	.....	.....	.....	63,882	.....	63,882
1905	24,054	15,483	93,622	9,197	10,892	.....	9,682	162,930	.....	1	.....	73,464	.....	73,465
1906	15,215	13,410	135,240	9,266	11,323	.....	10,678	195,132	.....	169	.....	33,523	.....	33,692
1907	18,898	21,892	124,474	2,812	4,741	2	22,001	194,820	30	110,347	4,050	114,420
1908	17,694	24,651	99,830	7,148	2,070	2	21,393	172,788	158,351	1,400	159,751

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* Apples, meal all kinds, pease, potatoes.

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D.—STATEMENT showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels entering the Canal at Port Colborne, during the Season of Navigation in 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906 and 1907, 1908.

ARTICLES.	CANADIAN VESSELS.				AMERICAN VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	225	131,907	163	76,760	388	382,231	144	86,675	920	677,573
1897.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	121,762		55,724		106,064		37,891		321,441	
Corn	33,694		15,244		274,855		66,822		390,615	
Barley					14,173				14,173	
Oats	223				23,515		1,168		24,906	
Pease	1,851								1,851	
Rye	2,047		919		5,517				8,483	
Coal	3,873		3,947		368		1,615		9,803	
Miscellaneous merchandise..	15,739		3,290		70,968		4,174		94,071	
Shingles, woodenware, &c....	1,268		5		404				1,677	
Sawed lumber.....Ft. B.M.	1,573,447				20,284,446		20,673,202		42,531,095	
Square timber.....Cub. ft	1,327,823		2,217,629				616,093		4,161,545	
Staves.....No.	2,577,160								2,577,160	
Firewood.....Cord.	4								4	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	126,398	104	59,532	354	355,702	195	108,720	869	650,352
1898.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.	95,567		36,157		54,934		18,355		205,013	
Corn.....	56,538		30,455		284,059		66,761		437,813	
Barley.....					9,465		2,821		12,286	
Oats.....					17,329				17,329	
Pease.....	260				45				305	
Rye.....	3,564		1,480		9,135		1,948		16,127	
Coal.....	575		1,916		759		2,620		5,870	
Miscellaneous merchandise..	19,385		4,104		47,271		8,758		79,518	
Shingles, woodenware, &c....	2		9						11	
Sawed lumber.....Ft. B.M.	4,910,669		1, 641,783		16,220,972		24,484,283		47,257,707	
Square timber.....Cubs ft.	825,545		1,183,821				388,410		2,397,776	
Firewood.....Cord.										
Staves.....No.	249								249	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	191	100,242	129	75,777	201	212,027	78	36,962	599	425,008
1899.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	91,901		80,928		16,250		7,244		196,323	
Corn.....	28,015		18,905		138,834		18,250		204,004	
Barley.....					2,424				2,424	
Oats.. ..	1,557				21,646				23,203	
Peas.										
Rye.....					923				923	
Coal.....	435		6,736				3,398		10,569	
Miscellaneous merchandise..	25,203		18,651		49,522		1,567		94,943	
Shingles, woodenware, &c....	485		916				100		1,501	
Sawed lumber ... Ft. B.M	2,077,748		772,739		14,855,338		19,949,079		37,654,904	
Square timber.....Cub. ft.	322,138		585,780		20,802		328,806		1,257,526	
Firewood Cords.			9						9	
Staves										

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D—STATEMENT showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—*Continued*

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	216	114,885	109	67,475	168	182,444	71	30,309	564	395,113
1900.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.	67,694		43,157		23,066		2,130		136,047	
Corn.	39,597		31,248		78,701		13,963		163,509	
Barley.					2,402		1,047		3,449	
Oats.					39,706		407		40,113	
Peas	115				4				119	
Rye.	1,389				2,149				3,538	
Coal.	723		637		433		559		2,352	
Miscellaneous merchandise . .	53,649		31,536		43,344		3,564		132,093	
Shingles, woodenware, &c. . .	1,078								1,078	
Sawed lumber. Ft. B.M.	6,847,279		5,344,258		14,984,483		18,770,405		45,946,425	
Square timber Cub. ft.	439,827		355,951		11,583		198,420		1,005,781	
Firewood Cords.	126		255						381	
Staves. No.	1,000								1,000	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	197	103,802	114	59,022	163	182,497	48	22,319	522	367,640
1901.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.	57,641		58,973		31,955		1,241		149,810	
Corn.	7,350		4,689		55,717				67,756	
Barley.					7,119				7,119	
Oats.	944				27,197				28,141	
Peas										
Rye.	2,961								2,961	
Coal.	1,960		362		357				2,679	
Miscellaneous merchandise . .	71,300		32,312		12,874		7,469		123,955	
Shingles, woodenware, &c. . .	18								18	
Sawed lumber. Ft. B.M.	6,533,423		4,060,251		11,089,806		13,092,940		34,776,420	
Square timber. Cub. ft.	362,441		204,682		9,384		149,531		726,038	
Firewood. Cords.	165		264						429	
Staves. No.										
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	196	90,791	122	73,958	191	201,339	52	22,097	561	388,185
1902.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat	82,954		85,973		52,889				221,816	
Corn	148		1,388		66,111				67,647	
Barley.					7,418				7,418	
Oats.	1,200		43		9,963				11,206	
Peas.										
Rye.	3,808				271				4,079	
Coal.	3,977		25,732		13,497		8,332		51,538	
Miscellaneous merchandise . .	33,111		8,723		38,351		1,594		81,779	
Shingles, woodenware, &c. . .	47		28		4				79	
Sawed lumber. Ft. B.M.	13,218,960		3,256,187		25,437,287		19,540,426		61,452,860	
Square timber. Cub. ft.	370,718		557,689				115,000		1,043,407	
Firewood Cords.	56		40						96	
Staves. No.			14,000						14,000	

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D—STATEMENT showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—Continued.

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	239	151,850	76	45,918	243	252,094	69	27,854	627	477,716
1903.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.....	149,378		38,473		60,514		6,305		254,670	
Corn.....	21,356		4,682		174,588		10,132		210,758	
Barley.....	2,580		667		11,409		.....		14,656	
Oats.....	306		1,335		6,112		.....		7,753	
Peas.....	63		.....		22		.....		85	
Rye.....	.....		.....		4,904		.....		4,904	
Coal.....	389		12,991		8,133		8,496		30,009	
Miscellaneous merchandise...	39,563		3,367		41,584		2,000		86,514	
Shingles, woodenware, &c....	.....		54		.....		.....		54	
Sawed lumber Ft. B.M.	12,841,552		1,625,855		17,871,652		14,733,677		47,072,736	
Square timber.....Cub. ft.	572,000		660,000		.....		84,200		1,316,200	
Firewood.....Cords.	.....		210		9		.....		219	
Staves.....No.	.....		641,000		.....		.....		641,000	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	228	157,539	55	39,375	205	187,748	42	15,918	530	400,580
1904.	Tons.		Tons.		Tons.		Tons.		Tons.	
	116,794		33,302		14,269		.....		164,365	
Wheat.....	12,768		7,814		95,362		.....		116,444	
Corn.....	2,619		824		23,728		.....		27,171	
Barley.....	.....		.....		16,261		.....		16,261	
Oats.....	.....		.....		3		.....		3	
Peas.....	.....		.....		.....		.....		.....
Rye.....	1,925		7,187		17,133		7,668		33,913	
Coal.....	34,907		.....		1,925		.....		36,832	
Miscellaneous merchandise..	29,567		.....		60,548		.....		90,115	
Shingles, woodenware, &c....	.....		.....		.....		.....		.....
Sawed lumber.....Ft. B.M.	15,077,382		854,811		32,754,541		9,572,655		58,259,389	
Square timber.....Cub. ft.	944,508		744,000		.....		149,000		1,837,508	
Firewood.....Cords.	.....		.....		717		.....		717	
Staves.....No.	634,000		.....		.....		.....		634,000	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	252	182,373	91	48,692	319	286,656	64	29,120	726	546,841
1905.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.....	188,706		18,575		28,757		2,512		238,550	
Corn.....	6,385		6,636		163,374		4,526		180,921	
Barley.....	6,870		1,451		47,111		.....		55,432	
Oats.....	8,225		2,570		21,535		3,742		36,072	
Peas.....	.....		.....		76		.....		76	
Rye.....	.....		.....		1,711		.....		1,711	
Coal.....	18,756		35,324		28,330		8,678		91,088	
Iron ore.....	14,358		8,023		.....		.....		22,381	
Merchandise.....	29,375		7,485		74,975		3,126		114,961	
Shingles, woodenware, &c....	.....		2,748,941		2,325		.....		2,325	
Sawed lumber Ft. B. M.	2,867,147		.....		38,290,831		12,479,698		54,589,200	
Square timber... .. Cub. ft.	355,000		951,524			538,000	
Firewood.....Cords.		183,000		900			900	

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D.—STATEMENT showing the Quantity of Through Freight passed Down the Welland Canal in Canadian and United States Vessels, &c.—*Concluded.*

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.	
	Steam.		Sail.		Steam.		Sail.		Steam and Sail	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	328	238,690	121	66,355	305	310,622	43	15,758	797	631,425
1906.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.....	250,493		34,355		35,578		.....		320,436	
Corn.....	8,177		.....		202,250		1,378		49,306	
Barley.....	8,546		5,046		17,854		.....		31,446	
Oats.....	21,900		16,083		11,323		.....		49,306	
Peas.....	.....		.....		11		.....		11	
Rye.....	.....		5		1,406		.....		1,411	
Coal.....	30,455		47,242		24,190		9,356		111,243	
Iron ore.....	5,862		.....		.....		.....		5,862	
Merchandise.....	35,383		7,009		110,263		50		152,705	
Shingles, woodenware, &c. ...	16		37		851		.....		904	
Sawed lumber.....Ft. B. M.	3,471,514		235,624		25,711,196		10,769,755		40,188,089	
Square timber.....Cub. ft.	375,000		200,000		.....		.....		575,000	
Firewood.....Cords.	110		18		1,093		.....		1,221	
Staves.....No.	.....		.....		300,000		.....		300,000	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	375	290,509	148	81,070	408	397,616	76	36,921	1,007	806,116
1907.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.....	294,298		50,808		130,818		4,429		480,303	
Corn.....	6,713		514		259,895		4,571		271,693	
Barley.....	8,726		468		4,046		.....		13,240	
Oats.....	49,689		16,647		7,033		.....		73,369	
Peas.....	.....		.....		25		.....		25	
Rye.....	.....		.....		2,270		.....		2,270	
Coal.....	31,506		47,373		50,183		14,493		143,555	
Iron ore.....	12,040		8,950		.....		.....		20,990	
Merchandise.....	21,545		9,436		5,231		6,235		42,447	
Shingles, woodenware, &c. ...	.....		.....		2,222		.....		2,222	
Sawed lumber.....Ft. B. M.	.....		.....		14,395,124		11,201,446		25,596,570	
Square timber.....Cub. Ft.	558,090		323,000		.....		.....		881,090	
Firewood.....Cords.	.....		.....		660		.....		660	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
	567	432,623	149	64,034	428	319,030	36	19,866	1180	835,553
1908.	Tons.		Tons.		Tons.		Tons.		Tons.	
Wheat.....	505,151		39,001		183,101		3,498		730,751	
Corn.....	2,405		.....		124,997		.....		127,402	
Barley.....	19,775		1,133		10,264		.....		31,172	
Oats.....	30,091		643		2,689		.....		33,423	
Peas.....	.....		.....		40		.....		40	
Rye.....	742		.....		5,925		.....		6,667	
Coal.....	39,733		42,656		57,448		8,344		148,181	
Merchandise.....	26,815		14,783		14,410		13,686		69,694	
Firewood.....Cords.	.....		70		1,173		.....		1,243	
Sawed lumber.....Ft. B. M.		17,572,070		6,578,545		24,150,615	
Square timber.....Cub. Ft.	221,300		313,000			534,300	

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WELLAND CANAL THROUGH FREIGHT—RECAPITULATION.

WELLAND CANAL—WEST BOUND FREIGHT.

THE total quantity of Through Freight passed Up the Welland Caual in Canadian and United States Vessels during the Season of Navigation in 1908 is as follows :—

Summary.	Tons.	Tons.
In Canadian steam vessels	142,517	154,203
" sail " 	11,686	
Total quantity in Canadian vessels		
In United States steam vessels	255,990	255,997
" sail " 	7	
Total in United States vessels.....		
Grand total freight passed Up the Welland Canal in Canadian and United States vessels.....		410,200

STATEMENT of the Quantity of Through Freight passed Up and Down the Welland Canal during the Season of Navigation in 1908.

Summary.	Tons.	Tons.
In Canadian steam vessels up.....	142,517	803,349
" " down.....	660,832	
Total in Canadian steam vessels .		
In Canadian sail vessels up.....	11,686	117,972
" " down.....	106,286	
Total in Canadian sail vessels. .		
Total quantity in Canadian vessels.....		921,321
In United States steam vessels up	255,990	737,605
" " down	481,615	
Total in United States steam vessels.....		
In United States sail vessels up.....	7	36,503
" " down	36,496	
Total in United States sail vessels		
Total quantity in United States vessels.....		774,108
Total in Canadian and United States vessels ...		1,695,429
	Down or East Bound.	Up or West Bound
In Canadian essels.....	767,118	154,203
In United States vessels.....	518,111	255,997
Total.....	1,285,229	410,200

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11.—STATION, of Large Class of Vessels Lightened at the Welland Railway Elevator at Port Colborne, showing the Tonnage, Dimensions, Depth of Water, Number of Cargoes passed through the enlarged Welland Canal during the season of Navigation in 1866.

CANADIAN STEAM VESSELS.

QUANTITY of Grain discharged at Port of London during the year of 1908 which did not enter the Welland Canal

Date	Vessel	Location	Length
May 11	Steamer Wassaic	100 miles off Cape Cod	7
June 13	Albatross	100 miles off Cape Cod	8
June 14		100 miles off Cape Cod	2000
June 18	Brig T. L. Wassaic	100 miles off Cape Cod	18
June 22	Steamer Albatross	100 miles off Cape Cod	18
June 26	Brig T. L. Wassaic	100 miles off Cape Cod	18
Aug 1	Steamer Merrimack	100 miles off Cape Cod	14,000
Aug 1	Wassaic	100 miles off Cape Cod	18,000
Aug 1	Albatross	100 miles off Cape Cod	20,000
Aug 1	Albatross	100 miles off Cape Cod	20,000

F.—STATEMENT showing the Quantity of Freight passed Eastward, from Lake Erie, through the whole length of the Welland and St. Lawrence canals, to Montreal, during the season of navigation 1896 to 1908.

Articles.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
<i>Class 3.</i>													
Cement and water lime.....	12								35				
Clay, lime and sand.....		38	52	15	15					22			
Iron, railway.....							50		8,170	10			
" pig.....	5				508						269	124	553
" all other.....	2,020	7,564	6,217	5,063	4,292	1,178	5,785	2,542	1,651	384			
Steel.....	542	375	1,351	3,000	5,420				16	48			
Stone, for cutting.....	200												
Apples.....	1,263												
Barley.....	240		3,960	596	1,288				1			9,936	
Corn.....	182,330	267,583	310,498	150,999	109,359	14,319	1,719	2,206	9,697	43,607	21,196	105,984	24,318
Flaxseed.....		3,293	5,687			4,965		3,643	55,021	84,204	55,559		10,454
Flour.....	11,964	1,029	653	4,229	1,595	1,400	6,755	16,151	212	15,694	80,570	49,159	27,500
Meal, all kinds.....						35		348	24,662	14,571	9,174	3,730	5,028
Oats.....	12,373	6,847	3,975	10,250	8,925	1,584	1,442	2,438	57	270	60		156
Oil cake.....								462		21,404	37,164	66,941	28,081
Pease.....	3,020	2,078	260		115			63		9,229			
Rye.....	8,323	8,435	15,488	923	3,078	2,961	4,079	4,260		1,711	1,405	2,266	6,662
Salt.....		216	144	183		50		132	615	168	75	143	419
Seeds, all kinds.....	20			200								29	
Hay, pressed.....				96		246							
Tobacco, raw.....		51				23							
Wheat.....	255,198	278,498	184,154	169,978	121,896	132,702	200,975	226,746	133,528	190,505	289,611	450,446	686,626
All other agricultural products, vegetables.....	29		56	32									
Hides, skins, horns and hoofs.....									10		2		
Horses.....	1	1	4	1									
Lard and lard oil.....						1,155				2,847	4,810		
Meats, all kinds.....						114							
Pork.....	1					34							524
Tallow.....								3		53			
All other agricultural products, animal.....									1				
Total, class 3.....	477,541	576,008	532,499	345,565	256,491	161,849	220,805	382,858	211,522	384,727	499,895	688,749	790,321
<i>Class 4.</i>													
Agricultural implements.....				3									
Ashes.....	94	133	73	55		1,785	13	58	17				
Bricks.....					25	3		2	16				1,543

Articles.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
<i>Class 4—Con.</i>													
Crockery..	5									93			
Furniture.....		1			1	5		3	6		6		
Glass, all kinds.....	9	53	75	16	6	1		15	3	21	11	4	
Molasses.....	167	9	56	159			54	240		820			
Nails.....				1				19		64			3
Oil.....	23	112	1,141	7,143	15,647	14,987	12,091	14,619	12,848	20,700	19,995	22,111	30,002
Paint.....						17		5					
Pitch and tar.....										53		101	
Rags.....	4							4					
Rosin.....								20					
Soda ash.....						4				59		15	
Sugar.....	1					112				2,019			
Tin.....									87	53			
Tobacco.....				96						204			
White lead.....					16								
Whisky, beer and other spirits.....		46	4	74	11	32		2	766	635	614	1,224	1,056
Merchandise not enumerated.....	376	1,226	866	518	92	2,420	419	582	713	851	466	2,294	2,126
Total, class 4.....	679	1,580	2,215	7,969	15,798	19,366	12,577	15,569	14,456	25,572	21,164	25,749	34,730
<i>Class 5.</i>													
Barrels, empty.....				1	182	66	15						
Hoops.....		257											
Sawed lumber.....	657	478	3,065	924	15,760	2,635	1,085			3,957	100		
Staves, pipe and barrel.....		4,716							304		2,400		
" West India and pipe.....													
Timber, square, in vessels.....									1,544	1,260	1,500	4,180	
" in rafts.....	1,200	1,207	329	26			17						
Woodenware.....													
Total, class 5.....	1,857	6,658	3,394	951	15,942	3,205	1,117		1,938	5,217	4,000	4,180	
<i>Special Class.</i>													
Coal.....										29,351	29,172	70,489	42,075
Iron ore.....							15,976		17,362	3,837			
Stone, all kinds.....													1,272
Total, special class.....										33,188	29,172	70,489	43,367
Grand total.....	480,077	584,246	538,108	354,485	28,231	184,420	250,475	398,427	275,278	448,704	554,231	789,167	869,398

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G.—STATEMENT showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Erie, during the Seasons of Navigation in 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906 and 1907.

Articles.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 3.													
Bricks.....	24	15	70	70	24	49	196	22	80	115	132	.....	556
Brimestone.....	.....	.....	.....	.....	.....	.....	5	20	23	12	.....	.....	.....
Cement and water lime.....	1,859	1,686	837	996	997	1,931	2,916	178	3,924	39	181	88	13
Clay, lime and sand.....	.....	.....	4	144	8	4	2	1	181	.....	.....	.....	100
Cotton, raw.....	.....	.....	.....	.....	.....	.....	.....	.....	23	.....	.....	.....	.....
Fish.....	.....	11	10	9	10	8	8	.....	8	4	.....	.....	39
Gypsum.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Iron, railway.....	.....	1,687	.....	.....	.....	.....	748	11,735	39,641	283	126	7,289	4,119
" pig.....	56	28	6	.....	.....	74	.....	558	273	.....	312	680	7,655
" all other.....	1,831	727	559	699	1,318	1,428	4,950	2,904	5,845	3,782	3,633	8,235	6,987
Salt.....	932	822	25	35	.....	48	75	4	87	99	150	17	.....
Steel.....	528	.....	.....	19	18	.....	3	11	332	58	192	111	2,561
Stone for cutting.....	.....	4	62	.....	.....	.....	.....	.....	.....	41	.....	.....	.....
Flour.....	.....	.....	.....	.....	.....	.....	16	.....	.....	.....	18	.....	.....
Hay.....	124	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	.....	30
Meals.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oats.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Potatoes.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seeds, all kinds.....	25	99	121	56	121	218	302	58	325	164	35	17	.....
Tobacco, raw.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....
Agricultural products not enumerated, vegetables.....													
Hides and skins.....	26	.....	4	.....	.....	.....	1	1	.....	.....	127	.....	.....
Horses.....	26	.....	.....	1	.....	.....	.....	16	6	.....	.....	.....	.....
Lard and lard oil.....	1	1	.....	2	.....	.....	.....	11	.....	.....	28	20	1
Meats other than pork.....	.....	.....	.....	.....	.....	.....	.....	.....	1	25	.....	.....	15
Pork.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wool.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
All other articles not enumerated.....													
Total, class 3.....	5,432	5,080	1,698	2,031	2,500	3,764	9,222	15,520	50,768	4,647	4,934	16,457	22,076
Class 4.													
Agricultural implements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....
Ashes, pot and pearl.....	.....	.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
Crockery and earthenware.....	12	83	4	33	3	5	.....	.....	32	291	155	294	456
Dye woods, &c.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2

G.—STATEMENT showing the Quantity of Freight passed Westward from Montreal, through the whole length of the St. Lawrence and Welland Canal to Lake Erie, &c.—Continued.

Articles.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Class 4—Concluded.													
Furniture.....			2			1			1	5	2	1	35
Glass, all kinds.....	394	612	799	150	299	456	612	1,384	1,207	1,671	1,641	2,519	3,534
Manilla.....										34	93	37	15
Marble.....												35	
Molasses.....	20	1					1		6		1		50
Nails.....	1,149	409	129	229	518	30	675	1,292	2,878	2,009	3,061	4,011	3,331
Oil, in barrels.....	31	33	12	15	21	74	83	14	16	1,418	120	148	155
Paint.....	75	49	20	35	2	12	69	97	158	202	367	412	295
Pitch and tar.....	67	60	20	37	6	21	27	27	58	199	5	239	
Rags.....					14			1	29		15		50
Resin.....					15				1				25
Soda ash.....	84	74	249	88	108	69	169	201	264	387	28	310	37
Stone, wrought.....		17	25	31									5
Sugar.....	1,430	1,873	311	566	1,596	430	810	1,314	204	52	1,168	1,153	6,046
Tin.....	396	395	359	237	159	117	338	506	209	362	928	1,365	1,173
Turpentine.....							1	2	1				1
White lead.....	7	10	5		1	4	11	37	80	82	80	304	283
Whiting.....	113	56	104	93	89	39	49	61	22	33	158	93	18
Whisky, beer, &c.....	77	51	93	98	178	295	131	182	452	432	384	483	1,040
Merchandise not enumerated.....	1,268	1,247	711	793	482	744	1,516	1,019	3,674	6,200	15,860	11,707	16,498
Total, class 4.....	5,123	4,970	2,844	2,405	3,491	2,447	4,492	6,169	9,294	13,379	23,566	23,116	33,049
Class 5.													
Barrels, empty.....													
Firewood in vessels.....								3,600	40,026	40,425	43,982	54,906	2,337
Pulpwood.....												2,307	101,989
Lumber, sawn, in vessels.....													
Railway ties in vessels.....									611				
Woodenware.....												5	
Total, class 5.....								3,600	40,637	40,425	43,982	57,218	104,326
Special Class.													
Coal.....										10,200			
Iron ore.....										2,861			
Total, special class.....										13,061			
Grand total.....	10,555	10,050	4,542	4,436	5,991	6,211	13,714	25,289	100,699	71,512	72,482	96,791	159,451

II.—STATEMENT showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports, during the Season of Navigation from 1896 to 1908 inclusive.

Articles.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
<i>Class 3.</i>													
Bricks.....		845											
Cement and water lime.....			300		18								
Fish.....												20	
Iron, railway.....		965	770								27	30	
" all other.....			321	1,003	714		30			1			
Salt.....				549		105							
Steel.....	498		2,951	13,522	3,110						2	509	9,086
Stone for cutting.....													
Apples.....	11,128	14,173	6,909	2,421	2,402	7,119	7,418	11,433	16,621	9,197	9,266	2,812	7,118
Barley.....	175,094	169,057	150,667	81,777	60,545	55,531	66,111	108,917	60,964	93,622	135,240	124,474	99,830
Corn.....	16,224	7,237	4,212	6,118	7,966	17,168	13,785	6,082	8,556	24,054	15,215	18,898	17,691
Flour.....		301								200			
Hay, pressed.....		41,644	22,626	18,198	14,214	14,016	12,675	13,546	13,076	9,606	10,668	21,976	21,353
Meal, all kinds.....	46,456									87			
Marble.....										1			
Nails.....						1,302	110	740	16,497	228		114	
Oil cake.....	16,137	14,969	12,729	19,526	39,706	26,341	10,006	6,112	3	10,892	11,323	4,741	2,070
Oats.....			45		4			22		76	11	25	40
Pease.....													
Potatoes.....	490		1,197	923	2,149			4,174			756		2
Rye.....				200				1,591					
Flax seed.....							10	27		43	3	17	
Seeds, all kinds.....	78	299	44	11									
Tobacco.....						23							21
Wheat.....	34,878	28,919	11,268	12,926	18,771	23,557	32,639	15,436	14,269	15,483	13,410	21,892	24,651
Agricultural products, vegetables.....					6	10		1			1	7	
Hides and skins, &c.....	41	23											
Horses.....	3	3	2		4			2					
Lard and lard oil, &c.....	1,318	1,444	3,671	861	1,588	1,680	2,413				22	86	
Meats, other than pork.....													
Pork.....	390	243	1,271	343	17	970	632	152	379	273	268	429	190
Sheep.....													
Tallow.....			359	201	631	119							
Wood.....	900	197	89	130		3	752	482	134	21	89	30	
Total, class 3.....	303,665	280,319	219,434	158,720	1	147,917	146,581	168,720	130,499	163,784	196,301	196,062	482,085
<i>Class 4.</i>													
Agricultural implements.....							399		396	552	491		2
Crockery and earthenware.....												5	
Furniture.....			2	7		3	17				1		

II.—STATEMENT showing the Quantity of Freight passed Eastward through the Welland Canal, from United States Ports to United States Ports, during the Season of Navigation from 1896 to 1908 inclusive.—*Concluded.*

Articles.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
<i>Class 4—Con.</i>													
Marble						4							
Molasses				8	57								
Nails				11								3	
Oil, in barrels	1,005	198	119	367	17	22	1,594	2,000	1			8	15
Paint			3	2	36				17	42	1	1	1
Rags				1				4		4			
Soda ash													
Stone, wrought													
Sugar	165	31			154	448	280		53	53	840	26,075	
White lead										7		4	
Whiting												21	
Whisky, beer and all other spirits			34	168	1	1						30	
Merchandise	3,990	3,591	3,828	6,219	7,889	3,327	1,928	2,010	1,554	2,008	2,324	41,621	1,857
Total, class 4	5,160	3,820	3,986	6,783	8,164	3,805	4,218	4,017	2,021	2,666	3,660	67,768	1,875
<i>Class 5.</i>													
Empty barrels	10				5	282				3	2	1	
Firewood, in vessels	165						4		717	2,700	3,609	1,980	3,509
Lumber, sawn, in vessels	75,515	68,280	52,844	57,695	55,128	38,685	72,806	48,337	30,194	15,726	27,701	14,314	21,571
Masts and spars, in vessels		403											
Hop poles									154				
Railway ties in vessels									652	2,248		2,151	478
Shingles										62	53	70	
Split posts										12			
Staves, salt barrels											1,500		
Timber, square, in vessels		1,040											
Woodenware, &c	12	1											
Total, class 5	75,702	69,724	52,844	57,695	55,133	38,367	72,810	48,337	31,717	20,751	32,865	18,516	25,558
<i>Special class.</i>													
Coal	1,255		759	2,293	992	357	501		1,100	3,346	4,400	110,347	
Stone, not suitable for cutting													
Kryolite												2,734	
Iron ore												1,316	
Total, special class	1,255		759	2,293	992	357	501		1,100	3,346	4,400	114,397	
Grand total	385,782	353,863	277,023	225,491	218,969	190,476	224,110	221,074	165,337	190,547	237,226	396,743	209,518

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TABLE I.—Number of Vessels passed Down the Welland Canal with Cargoes of Grain for Montreal; the quantity transhipped at Kingston, and the quantity taken to Montreal, for the Season of Navigation in 1908.

	Number of Cargoes.	Total Number.
Wheat.....	210	
Corn.....	1	
Total.....		211
	Tons.	Tons.
Quantity of wheat through the Welland Canal bound for Montreal	344,532	
" corn " " "	440	
Total through the Welland Canal.....		344,972
Quantity of the above transhipped at Kingston—		
Wheat.....	1,239	
Corn.....		
Total transhipped.....		1,239
Quantity of the above cargoes taken to Montreal in vessels in which it arrived at Kingston—		
Wheat.....	343,293	
Corn.....	440	
Total quantity to Montreal.....		343,733
Grand total.....		344,972

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J.—STATEMENT showing the Quantity of Grain passed Down the Welland Canal in Canadian and United States vessels entering the Canal at Port Colborne, during the Season of Navigation in 1908.

ARTICLES.	CANADIAN VESSELS.				UNITED STATES VESSELS.				TOTAL.
	Steam.		Sail.		Steam.		Sail.		Steam and Sail.
	No.	Tonnage.	No.	Tonnage	No.	Tonnage.	No.	Tonnage.	No. | Tonnage.
	567	432,623	149	64,034	428	319,030	36	19,866	1180 | 835,553
Barley...		19,775		1,133		10,264			31,172
Corn...		2,405				124,997			127,402
Oats...		30,091		643		2,689			33,423
Pease...						40			40
Rye...		742				5,925			6,667
Wheat...		505,151		39,001		183,101		3,498	730,751
Total ...		558,164		40,777		327,016		3,498	929,455
Cargoes in Canadian Vessels, Steam, total quantity.....									558,164
" " " Sail "									40,777
" United States " Steam "									327,016
" " " Sail "									3,498

K.—STATEMENT of the Quantity of Grain arrived at Kingston, Ogdensburg and Prescott, in Vessels which passed Down the Welland Canal, during the Season of Navigation in 1908.

Summary.	Tons.	Tons.
Canadian Steam—330 cargoes of grain.....	558,164	
" Sail 25 "	40,777	
Total in Canadian vessels.....		598,941
United States Steam—269 cargoes of grain...	327,016	
" Sail 2 "	3,498	
Total in United States vessels... ..		330,514
Total in Canadian and United States vessels.....		929,455
Distributed as follows :—		
187 Canadian and 54 United States vessels arrived at Kingston, discharged part of their cargoes, taking the balance to Montreal.....		384,802
222 vessels arrived at Kingston and discharged all their cargoes, as follows :—		
181 cargoes in Canadian vessels.....	300,772	
41 " United States vessels.....	68,626	
Quantity transhipped and taken to Montreal.....		369,398
" taken to Ogdensburg.....		138,972
" remaining at Canadian ports		36,283
Total.....		929,455

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L—COMPARATIVE STATEMENT of the Quantity of Grain passed Down the Welland Canal to Kingston and Ogdensburg, during the Seasons of Navigation in 1907 and 1908.

	1907.		1908.	
	No. of Cargoes.	Tons.	No. of Cargoes.	Tons.
Quantity arrived at Kingston in Canadian vessels	255	427,813	355	598,941
Quantity arrived at Kingston and Ogdensburg in United States vessels.....	263	413,087	271	330,514
Total	518	840,900	626	929,455
Quantity transhipped at Kingston and Ogdensburg in Canadian vessels for Montreal.....		466,777	.....	*369,398
Quantity taken to Montreal in vessels in which it arrived at Kingston.....		168,796	.....	384,802
Quantity remaining at Kingston, Ogdensburg and Cardinal..		205,327	.....	175,255
Total.....		840,900	.....	929,455

*Of this quantity 960 tons were transhipped from Kingston, being grain of 1907. 241 vessels took their cargoes through in 1908, against 134 in 1907. 222 vessels discharged all their cargoes in 1908, against 287 in 1907.

M.—The quantity of Coal passed through the Welland Canal during a series of years from 1885 to 1908, inclusive, is as follows:—

Years	From Canadian Ports to Canadian Ports.	From Canadian Ports to Canadian Ports.	From United States Ports to United States Ports.		From United States Ports to Canadian Ports.		Total.
	Up.	Down.	Up.	Down.	Up.	Down.	
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
1885.....			193,442	4,974	10,321	31,350	240,087
1886.....			184,564	5,400	22,187	49,724	261,875
1887.....			81,617	1,163	26,775	25,968	135,523
1888.....			172,381	878	17,365	27,183	217,807
1889.....			226,352	1,124	12,036	25,931	265,443
1890.....	80		116,616	615	17,280	22,781	202,372
1891.....			185,190	1,382	17,374	20,698	224,644
1892.....			183,244	651	12,391	15,330	211,616
1893.....			204,704	2,123	8,325	17,944	233,096
1894.....			187,794	727	1,269	13,947	203,737
1895.....	4		148,887	603	1,565	7,807	158,866
1896.....	20	210	206,093	1,255	4,127	11,740	223,445
1897.....		4	165,143	.....	1,277	9,799	176,223
1898.....			156,055	759	986	4,536	162,336
1899.....			86,638	2,293	525	8,276	97,732
1900.....	8		45,032	992	.....	1,360	47,392
1901.....			46,345	357	456	2,322	49,480
1902.....			12,410	501	65	51,037	64,013
1903.....	3		113,076	.....	4,796	30,009	147,884
1904.....	2,919		62,782	1,100	3,711	32,813	103,325
1905.....			70,118	3,346	11,436	37,742	172,642
1906.....	60		29,123	4,400	7,161	106,843	147,587
1907.....	2,857		110,347	10,453	143,555	267,212
1908.....	4,401		158,351	5,988	148,181	316,921

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N.—STATEMENT showing the quantity of Coal passed through the whole length of the St. Lawrence Canal during the seasons of 1885 to 1908, inclusive.

YEARS.	Quantity passed up.	Quantity passed down to Montreal.	Total Quantity passed up and down.
	Tons.	Tons.	Tons.
1885.. .. .	5,035	122,829	127,864
1886.. .. .	3,301	118,802	122,103
1887.. .. .	7,579	121,618	129,197
1888.. .. .	8,341	123,050	131,391
1889.. .. .	5,360	124,290	129,650
1890.. .. .	6,538	135,168	141,706
1891.. .. .	7,951	141,701	149,652
1892.. .. .	7,543	157,134	164,677
1893.. .. .	2,285	147,139	149,424
1894.. .. .	16,213	169,552	185,765
1895.. .. .	.....	165,151	165,151
1896.. .. .	689	161,551	162,240
1897.. .. .	40	164,963	165,003
1898.. .. .	400	175,609	176,009
1899.. .. .	448	201,546	201,994
1900.. .. .	10	280,169	280,179
1901.. .. .	2,765	298,245	301,010
1902.. .. .	9,231	95,702	104,933
1903.. .. .	30	290,548	290,578
1904.. .. .	9,670	320,973	330,643
1905.. .. .	8,518	345,589	354,107
1906.. .. .	6,989	313,080	320,069
1907.. .. .	1,281	406,978	408,259
1908.. .. .	23,939	448,140	472,079

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O.—STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.

RECAPITULATION.

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on the south side of Lake Ontario.
1897.	Tonnes.	Tonnes.	Tonnes.
Barley.....	.....	.....	14,173
Corn.....	264,396	11,103	115,689
Oats.....	6,774	3,046	15,233
Pease.....	2,078	3	.....
Rye.....	8,435	48	.....
Wheat.....	278,498	39,057	12,661
Total grain.....	*560,254	53,257	157,756
Other articles.....	20,793	114,989	122,207
Total.....	581,047	166,2 46	285,963
1898.			
Barley.....	3,960	1,417	6,909
Corn.....	310,498	13,338	116,317
Oats.....	3,975	625	12,729
Pease.....	260	.....	45
Rye.....	16,133	39	.....
Wheat.....	184,706	15,860	8,612
Total grain.....	†519,532	31,279	144,612
Other articles.....	19,773	79,614	114,259
Total.....	539,305	110,893	258,871
1899.			
Barley.....	568	.....	1,828
Corn.....	150,999	16,594	43,854
Oats.....	10,250	1	13,139
Pease.....	.....	.....	.....
Rye.....	923	.....	.....
Wheat.....	169,978	24,602	9,190
Total grain.....	‡ 332,736	40,197	68,011
Other articles.....	21,739	68,671	104,727
Total.....	354,485	108,958	172,732
1900.			
Barley.....	1,288	563	1,598
Corn.....	109,358	9,844	44,406
Oats.....	8,925	348	30,840
Pease.....	115	.....	4
Rye.....	3,078	160	300
Wheat.....	121,896	6,610	7,541
Total grain.....	**244,661	17,525	84,589
Other articles.....	43,670	95,680	93,287
Total.....	288,231	113,205	177,876

* Of this quantity, 7,695 tons came down in 1896 and were transhipped to Montreal in 1897.

† Of this quantity, 6,550 tons came down in 1897 and were transhipped in 1898.

‡ Of this quantity, 14,077 tons came down in 1898 and were transhipped to Montreal in 1899.

** Of this quantity, 12,171 tons came down in 1899 and were transhipped to Montreal in 1900.

9-10 EDWARD VII., A. 1910

O.—STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.—*Continued.*

RECAPITULATION—*Continued.*

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on the south side of Lake Ontario.
1901.	Tons.	Tons.	Tons.
Barley.....			
Corn.....	14,319	4,828	49,609
Oats.....	1,584	853	25,704
Pease.....			
Rye.....	2,961		
Wheat.....	132,702	8,051	9,057
Total grain	†151,566	13,732	83,370
Other articles	32,854	128,614	91,799
Total.....	184,420	142,346	175,169
1902.			
Barley.....			7,418
Corn	1,719	10,335	55,583
Oats.....	1,412		9,764
Pease.....			
Rye.....	4,079		
Wheat.....	200,975	12,452	8,389
Total grain ...	†208,215	22,787	81,165
Other articles.....	42,260	32,946	179,914
Total.....	250,475	55,733	261,078
1903.			
Barley.....	2,206	1,017	11,433
Corn	116,223	13,846	80,689
Oats.....	2,438		5,315
Pease.....	63		22
Rye	4,200		644
Wheat.....	226,746	14,199	13,725
Total grain ...	§351,936	29,062	111,828
Other articles.....	38,850	82,298	101,621
Total.....	390,786	111,360	213,449
1904.			
Barley.....	9,697	853	16,621
Corn.....	55,021	3,950	57,473
Oats.....			16,497
Pease.....			3
Rye.....			
Wheat.....	*133,528	18,908	11,929
Total grain..	198,246	23,711	102,523
Other articles.....	77,031	80,092	138,475
Total.....	375,277	103,803	240,998

† Of this quantity, 9,324 tons came down in 1900 and were transhipped to Montreal in 1901.

‡ Of this quantity, 6,096 tons came down in 1901 and were transhipped to Montreal in 1902.

§ Of this quantity, 2,890 tons came down in 1902 and were transhipped in 1903.

* Of this quantity, 4,014 tons were transhipped to Montreal, being grain of 1903.

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O.—STATEMENT showing the Quantity of Through Freight passed down the Welland Canal, &c.—*Concluded.*

RECAPITULATION—*Concluded.*

Articles.	Quantity passed down to Montreal.	Quantity passed down to Canadian Ports between Port Dalhousie and Cornwall.	Quantity passed down to United States Ports on the south side of Lake Ontario.
1905.	Tons.	Tons.	Tons.
Barley.....	43,607	2,628	9,197
Corn.....	84,204	3,095	93,622
Oats	21,404	3,776	16,892
Pease.....			76
Rye	1,711		
Wheat.....	190,505	32,562	15,483
Total grain	**341,431	42,061	129,270
Other articles.....	107,273	123,225	104,747
Total.....	448,704	165,286	234,017
1906.			
Barley	21,196	984	9,266
Corn.....	55,559	15,688	140,558
Oats.....	37,164	819	11,323
Pease.....		11	
Rye.....	1,405	6	
Wheat.....	***289,611	15,843	14,972
Total grain.....	404,935	33,351	176,119
Other articles.....	118,224	176,277	59,884
Total.....	523,159	209,628	236,003
1907.			
Barley.....	9,936	492	2,812
Corn.....	106,299	31,901	133,493
Oats	67,063	1,565	4,741
Pease.....			25
Rye.....	2,266	2	2
Wheat	*450,009	8,072	22,222
Total grain	635,573	42,032	163,295
Other articles	153,594	126,423	93,127
Total.....	789,167	168,455	256,422
1908.			
Barley	24,318	3,546	3,308
Corn.....	10,454	11,489	105,459
Oats	28,081	3,272	2,070
Pease.....			40
Rye.....	6,662	3	2
Wheat	†686,626	19,832	24,293
Total grain	756,141	38,142	135,172
Other articles.....	108,785	162,378	91,875
Total	864,926	200,520	227,047

** Of this quantity, 2,809 tons were transhipped to Montreal, being grain of 1904.

*** Of this quantity, 4,191 tons were transhipped to Montreal, being grain of 1905.

* Of this quantity, 2,994 tons were transhipped to Montreal, being grain of 1906.

† Of this quantity, 960 tons were transhipped to Montreal, being grain of 1907.

TABLE 1.—COMPARATIVE STATEMENT of Grand Total Freight passed through the undermentioned Canals during the Seasons of Navigation 1907 and 1908.

Canals.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
1907.													
Welland	91,495	452,519	110,556	26,773	177,660	219,083	10,453	525,593	390,164	1,223,968	1,614,132		
St. Lawrence.....	501,346	885,006	264,292	124	232	2,515	18,242	428,709	784,112	1,316,354	2,100,466		
Chambly.....	4,817	10,227	483,423					126,815	488,240	137,042	625,282		
Ottawa.....	324	284,428				53,098			324	337,526	337,850		
Rideau.....	34,161	32,634	4,735	1,644				9,195	38,896	43,473	82,369		
St. Peter's.....	25,756	47,411							25,756	47,411	73,167		
Trent Valley	13,625	56,181							13,625	56,181	69,806		
Murray.....	11,960	13,560	390					26,492	12,350	40,052	52,402		
Sault Ste. Marie....	351,249	1,380,192	28,296	197,597	1,814,067	10,786,182	790,674	239,908	2,984,286	12,603,879	15,588,165		
Grand total	1,034,733	3,162,158	891,692	226,138	1,991,959	11,060,878	819,369	1,356,712	4,737,753	15,805,886	20,543,639		
1908.													
Welland	128,077	571,961	35,370	15,278	239,136	209,518	8,377	495,736	410,960	1,292,493	1,703,453	927,208	776,245
St. Lawrence.....	434,906	839,881	140,162	198	753	1,227	8,635	583,340	584,456	1,424,646	2,009,102	747,451	1,261,651
Chambly.....	4,160	10,730	364,774					123,612	368,934	134,342	503,276	123,602	379,674
Ottawa.....	2,358	226,623		28,855				691	2,358	256,169	258,527		258,527
Rideau	39,570	31,713	1,998	4,051				12,308	41,568	48,072	89,640	12,121	77,519
St. Peter's.....	22,420	49,595							22,420	49,595	72,015		72,015
Trent Valley	11,840	69,850							11,840	69,850	81,690		81,690
Murray.....	6,717	5,380	492	6				13,306	7,209	18,692	25,901	13,306	12,595
Sault Ste. Marie....	378,198	1,486,689	17,940	230,333	1,464,421	8,008,121	955,288	218,226	2,815,847	9,943,369	12,759,216	10,666,985	2,092,231
Grand total	1,028,246	3,292,422	560,736	278,721	1,704,310	8,218,866	972,300	1,447,219	4,265,592	13,237,228	17,502,820	12,490,673	5,012,147

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TABLE No. 2.—STATEMENT showing the Number, Tonnage and Nationality of Vessels passed through the several Canals during the Season of Navigation 1908.

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
		Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	
CANADIAN VESSELS.												
Steam and Sail.												
Welland.....	1,531	361,107	368,644	129,913	2,736	2,847	.....	6,114	120,876	499,981	492,256	992,237
St. Lawrence.....	6,598	1,101,117	894,027	64,735	230	183	.....	599	123,389	1,166,634	1,017,646	2,184,280
Chambly.....	685	29,698	30,531	6,887	.....	.....	.....	.....	7,097	36,585	37,628	74,213
Ottawa.....	1,773	36,436	176,035	150	2,562	.....	.....	.....	.....	36,586	178,597	215,183
Rideau.....	7,832	91,587	92,381	438	.....	.....	.....	.....	1,612	92,025	93,993	186,018
St. Peter's.....	1,380	47,772	47,778	.....	.....	.....	.....	.....	.....	47,772	47,788	95,560
Trent Valley.....	5,025	97,947	127,872	.....	.....	.....	.....	.....	.....	97,947	127,872	225,819
Murray.....	927	66,706	61,272	39,629	.....	.....	.....	566	36,074	106,901	97,346	204,247
Sault Ste. Marie.....	3,289	894,406	949,589	76,575	221,787	2,027	7,844	341,665	109,339	1,314,673	1,288,559	2,603,232
Total.....	29,040	2,726,776	2,748,139	318,327	227,315	5,057	7,844	348,944	398,387	3,399,104	3,381,685	6,780,789
UNITED STATES VESSELS.												
Welland.....	820	65	273	81,258	5,087	248,177	174,939	2,244	158,891	331,744	339,190	670,934
St. Lawrence.....	1,427	25,908	16,761	204,232	1,237	17,907	16,741	16,590	216,891	264,637	251,630	516,267
Chambly.....	2,909	25	1,555	131,816	.....	32	.....	.....	147,302	131,873	148,857	280,730
Ottawa.....	109	.....	97	.....	9,814	.....	.....	193	493	193	10,404	10,597
Rideau.....	149	1,000	1,483	173	497	.....	.....	.....	769	1,173	2,749	3,922
St. Peter's.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trent Valley...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Murray.....	71	599	175	489	.....	.....	.....	65	1,706	1,153	1,881	3,034
Sault Ste. Marie.....	2,004	26,990	12,361	24,805	107,485	2,709,508	3,950,712	193,743	10,051	2,955,046	4,080,609	7,035,655
Total United States.....	7,489	54,587	32,705	442,773	124,120	2,975,624	4,142,392	212,835	536,103	3,685,819	4,835,320	8,521,139
Grand total Canadian and U. S.	36,529	2,781,363	2,780,844	761,100	351,435	2,980,681	4,150,236	561,779	934,490	7,084,923	8,217,005	15,301,928

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TABLE NO. 3.—SUMMARY STATEMENT showing the Number, Tonnage and Nationality
December

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.	
		Up.	Down.	Up.	Down.
WELLAND CANAL.					
Canadian vessels, steam	1,180	323,565	327,354	102,300	2,736
" sail.....	351	37,542	41,290	27,613	.....
Total Canadian	1,531	361,107	368,644	129,913	2,736
United States vessels, steam	753	64	267	70,292	3,323
" sail.....	67	1	6	10,966	1,764
Total United States.....	820	65	273	81,258	5,087
Grand total, Welland Canal.....	2,351	361,172	368,917	211,171	7,823
St. LAWRENCE CANALS.					
Canadian vessels, steam	3,435	557,647	445,285	44,492	230
" sail.....	3,163	543,470	448,742	20,243	.....
Total Canadian	6,598	1,101,117	894,027	64,735	230
United States vessels, steam.....	1,007	23,500	9,528	141,739	935
" sail.....	420	2,408	7,233	62,493	302
Total United States.....	1,427	25,908	16,761	204,232	1,237
Grand total, St. Lawrence Canals.....	8,025	1,127,025	910,788	268,967	1,467
CHAMBLY CANAL.					
Canadian vessels, steam	333	24,420	24,612	27	.....
" sail.....	352	5,278	5,919	6,860	.....
Total Canadian	685	29,698	30,531	6,887	.....
United States vessels, steam.....	91	20	4	616	.....
" sail.....	2,818	5	1,551	131,200	.....
Total United States.....	2,909	25	1,555	131,816	.....
Grand total, Chambly Canal.....	3,594	29,723	32,086	138,703	.....
OTTAWA CANALS.					
Canadian vessels, steam	921	33,397	77,024	150	.....
" sail.....	852	3,039	99,011	.....	2,562
Total Canadian	1,773	36,436	176,035	150	2,562
United States vessels, steam.....	2	.....	.....	.....	36
" sail.....	107	.....	97	.....	9,778
Total United States.....	109	.....	97	.....	9,814
Grand total, Ottawa Canals	1,882	36,436	176,132	150	12,376
RIDEAU CANAL.					
Canadian vessels, steam	5,864	71,191	71,010	140
" sail.....	1,968	20,396	21,371	298
Total Canadian	7,832	91,587	92,381	438

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of Vessels passed through all the Canals during the Season of Navigation ended 31, 1908.

From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.
Up.	Down.	Up.	Down.	Up.	Down.	
2,604	.....	6,114	92,689	434,583	422,779	857,362
243	.....	.....	28,187	65,398	69,477	134,875
2,847	.....	6,114	120,876	499,981	492,256	992,237
243,120	172,732	1,656	144,523	315,132	320,845	635,977
5,057	2,207	588	14,368	16,612	18,345	34,957
248,177	174,939	2,244	158,891	331,744	339,190	670,934
251,024	174,939	8,358	279,767	831,725	831,446	1,663,171
183	.....	157	96,203	602,479	541,718	1,144,197
.....	.....	442	27,186	564,155	475,928	1,040,083
183	.....	599	123,389	1,166,634	1,017,646	2,184,280
17,310	16,431	1,135	165,923	183,684	192,817	376,501
597	310	15,455	50,968	80,953	58,813	139,766
17,907	16,741	16,590	216,891	264,637	251,630	516,267
18,090	16,741	17,189	340,280	1,431,271	1,269,276	2,700,547
.....	.....	.....	62	24,447	24,674	49,121
.....	.....	.....	7,035	12,138	12,954	25,092
.....	.....	.....	7,097	36,585	37,628	74,213
32	.....	.....	1,342	668	1,346	2,014
.....	.....	.....	145,960	131,205	147,511	278,716
32	.....	.....	147,302	131,873	148,857	280,730
32	.....	.....	154,399	168,458	186,485	354,943
.....	.....	.....	.....	33,547	77,024	110,571
.....	.....	.....	.....	3,039	101,573	104,612
.....	.....	.....	.....	36,586	178,597	215,183
.....	.....	.....	.....	.....	36	36
.....	.....	193	493	193	10,368	10,561
.....	.....	193	493	193	10,404	10,597
.....	193	493	36,779	189,001	225,780
.....	1,205	71,331	72,215	143,546
.....	407	20,694	21,778	42,472
.....	1,612	92,025	93,993	186,018

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TABLE No. 3.—SUMMARY STATEMENT showing the Number, Tonnage and Nationality
December 31,

Vessels.	Total Number of Trips.	From Canadian to Canadian Ports.		From Canadian to United States Ports.	
		Up.	Down.	Up.	Down.
RIDEAU CANAL— <i>Con.</i>					
United States vessels, steam.....	60	95	204	45	2
" sail.....	89	905	1,279	128	495
Total United States.....	149	1,000	1,483	173	497
Grand total, Rideau Canal	7,981	92,587	93,864	611	497
ST. PETER'S CANAL.					
Canadian vessels, steam	234	13,772	13,151	.....	.....
" sail.....	1,146	34,000	34,637	.....	.....
Total Canadian	1,380	47,772	47,788	.....	.....
United States vessels, steam.....	.....	.....	.....	.....	.....
" sail.....	.....	.....	.....	.....	.....
Total United States.....	.....	.....	.....	.....	.....
Grand total, St. Peter's Canal.....	1,380	47,772	47,788	.....	.....
TRENT VALLEY CANALS.					
Canadian vessels, steam	4,337	78,428	95,240	.....	.....
" sail.....	688	19,519	32,632	.....	.....
Total Canadian	5,025	97,947	127,872	.....	.....
United States vessels, steam.....	.....	.....	.....	.....	.....
" sail.....	.....	.....	.....	.....	.....
Total United States.....	.....	.....	.....	.....	.....
Grand total, Trent Valley Canals.....	5,025	97,947	127,872	.....	.....
MURRAY CANAL.					
Canadian vessels, steam	748	55,213	49,784	35,581	.....
" sail.....	179	11,493	11,488	4,048	.....
Total Canadian	927	66,706	61,272	39,629	.....
United States vessels, steam.....	48	509	170	368	.....
" sail.	23	90	5	121	.....
Total United States	71	599	175	489	.....
Grand total, Murray Canal.....	998	67,305	61,447	40,118	.....
SAULTE STE. MARIE CANAL.					
Canadian vessels, steam	2,957	859,158	911,216	75,190	221,475
" sail.....	332	35,248	38,373	1,385	312
Total Canadian	3,289	894,406	949,589	76,575	221,787
United States vessels, steam.....	1,905	24,348	11,664	24,205	103,018
" sail.....	99	2,642	697	600	4,467
Total United States	2,204	26,990	12,361	24,805	107,485
Grand total, Sault Ste. Marie Canal...	5,293	921,396	961,950	101,380	329,272

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TABLE 4.—COMPARATIVE STATEMENT of the Traffic of all the Canals for the Years ending December 31, 1907 and 1908.

Articles.	1907.	1908.	Increase.	Decrease.
<i>Class No. 1.</i>	Tons,	Tons.	Tons.	Tons.
Canadian vessels, steam.....	4,528,064	5,201,093	673,029	.....
" sail.....	1,796,715	1,579,696	.....	217,019
United States vessels, steam.....	10,822,555	7,881,570	.....	2,940,985
" sail.....	786,411	639,569	.....	146,842
Total, class No. 1.....	17,933,745	15,301,928	673,029	3,304,846
<i>Class No. 2.</i>	No.	No.	No.	No.
Passengers.....	279,199	280,830	1,631	.....
<i>Class No. 3.</i>	Tons.	Tons.	Tons.	Tons.
Barley.....	154,986	174,628	19,642	.....
Buckwheat.....	53	858	805	.....
Corn.....	410,671	153,713	.....	256,958
Flour.....	378,644	228,605	.....	150,039
Hay, pressed.....	25,121	18,259	.....	6,862
Meal, all kinds.....	49,612	28,100	.....	21,512
Oil cake.....	2,028	134	.....	1,894
Oats.....	343,984	225,659	.....	118,325
Pease.....	822	286	.....	536
Potatoes.....	6,535	6,858	323	.....
Rye.....	13,638	26,661	13,023	.....
Flax seed.....	248,940	234,738	.....	14,202
Wheat.....	2,473,202	3,199,031	725,829	.....
All other vegetable.....	27,096	23,838	.....	3,258
Cattle.....	552	628	76	.....
Fish.....	2,705	2,220	.....	485
Hogs.....	578	369	.....	209
Hides and leather.....	50	101	51	.....
Horses.....	784	701	.....	83
Dressed meats.....	701	106	.....	595
Pork and products.....	1,185	2,273	1,088	.....
Sheep.....	332	209	.....	123
Wool.....	1,635	4	.....	1,631
All other animal.....	12,499	10,177	.....	2,322
Total, class No. 3.....	4,156,353	4,338,156	760,837	579,034
<i>Class No 4.</i>				
Agricultural implements.....	8,508	11,378	2,870	.....
Bricks.....	20,953	15,769	.....	5,184
Cement and lime.....	78,347	49,577	.....	28,770
Clay and sand.....	174,274	126,065	.....	48,209
Crockery and earthenware.....	1,804	1,813	9	.....
Furniture.....	4,165	2,905	.....	1,260
Glass, all kinds.....	10,990	10,364	.....	626
Iron, pig and bloom.....	155,466	52,952	.....	102,514
" all other.....	71,208	132,307	61,099	.....
Nails.....	20,397	12,075	.....	8,322
Oils.....	59,903	83,742	23,839	.....
Paint.....	2,473	3,714	1,241	.....
Salt.....	19,035	22,709	3,674	.....
Steel.....	22,740	82,902	60,162	.....
Whisky and all other spirits.....	10,682	10,193	.....	489
Merchandise not enumerated.....	526,474	531,665	5,191
Total, class No. 4.....	1,187,419	1,150,130	158,085	195,374

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TABLE 4.—COMPARATIVE STATEMENT of the Traffic of all the Canals for the Years ending December 31, 1907 and 1908—*Concluded*.

Articles.	1907.	1908.	Increase.	Decrease.
<i>Class No. 5.</i>	Tons.	Tons.	Tons.	Tons.
Floats.....	39,550	15,684	.....	23,866
Firewood, in vessels.....	59,999	74,117	14,118	.....
Pulpwood..	752,691	393,189	.....	359,502
Sawed lumber, in vessels.	533,051	414,405	.....	118,646
" rafts.....	243	2,824	2,581	.....
Railway ties, in vessels..	3,371	2,598	.....	773
Masts, spars, &c., in rafts.....	4,630	841	.....	3,789
Square timber, in vessels.....	26,214	17,570	.....	8,644
" rafts.....	10,910	35,502	24,592	.....
Shingles.....	19,087	9,990	.....	9,097
Saw logs.....	35,628	18,056	.....	17,572
Other woods.....	2,552	2,655	103	.....
Total, class No. 5	1,487,926	987,431	41,3	541,889
<i>Class No. 6.</i>				
Coal, hard.....	3,546,683	1,006,259	}	18,574
" soft.....		2,521,850		
Coke.....	.....	52	52	.....
Copper ore	19,384	8,855	.....	10,529
Iron ore	10,105,016	7,402,672	.....	2,702,344
Other ore..	4,889	10,321	5,432	.....
Stone, all kinds...	35,969	77,094	41,125	.....
Total, class No. 6.....	13,711,941	11,027,103	46,609	2,731,447
Freight, grand total....	20,543,639	17,502,820	1,006,925	4,047,744
Freight, grand total, decrease..	3,040,819

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Dressed meats.....	35	2	5	36	26	2
Pork and products.....	868	1,049	6	1	3	164	182
Sheep.....	26	57	118	6	2
Wool.....	.....	.....	2	.....	2	.....	.....	.....	.....
All other agricultural products, animal.....	89	5,518	48	297	2,464	1,697	10	54	.....
Total, class No. 3	1,008,960	867,937	10,232	1,767	7,246	6,110	15,546	1,157	2,419,201
Class No. 4.									
Agricultural implements.....	7,008	140	126	15	14	371	3	19	3,682
Bricks.....	1,748	10,775	729	.....	.....	1,309	56	472	680
Cement and lime.....	4,335	1,725	34	1,416	210	739	1,096	556	39,159
Clay and sand.....	325	49,952	9,630	800	43,545	21,421	17	.....	375
Crockery and earthenware.	441	887	28	240	6	126	27	18	40
Furniture.....	1	2,381	92	170	58	147	21	35	.....
Glass, all kinds.....	3,444	5,696	11	539	142	328	85	.....	119
Iron, pig and bloom	9,683	2,173	20	102	1	87	4	8	40,874
" all other	26,043	22,998	869	432	67	1,399	166	22	80,311
Nails.....	4,856	5,313	83	150	.....	568	69	.....	1,036
Oil, in barrels.....	47,290	35,010	183	279	1	535	433	11	.....
Paint.....	1,082	2,102	62	265	.....	134	49	.....	20
Salt.....	429	4,679	192	30	.....	2,560	420	6	14,393
Steel.....	17,095	40,768	45	358	.....	118	.....	.....	24,518
Whisky and all other spirits	3,866	5,038	30	512	.....	603	37	11	96
Merchandise, not enumerated.. . . .	137,515	93,536	8,466	3,206	2,659	6,312	1,677	1,411	276,883
Total, class No. 4.....	265,161	283,173	20,907	8,514	46,703	36,757	4,160	2,569	482,186
Class No. 5.									
Floats.....	.....	.....	.....	.....	10,080	.....	.....	4,936	668
Firewood, in vessels	5,369	372	402	.....	19,667	6,603	149	41,225	330
Pulpwood.....	4,293	86,511	302,384	1	.....	.....	.....	.....	.....
Lumber, sawn, in vessels	43,690	58,576	60,517	133	163,877	24,922	4,653	2,583	55,454
" in rafts.....	.....	84	.....	.....	.....	.....	.....	2,096	644
Railway ties, in vessels.....	478	200	.....	17	38	272	240	.....	1,353
Masts, spars and telegraph poles, in rafts.....	.....	.....	738	48	.....	40	15	.....	.....
Square timber, in vessels.....	12,820	2,232	.....	.....	150	4	202	1,965	197
" in rafts.....	.....	28,882	.....	.....	3,750	1,000	.....	1,870	.....
Shingles.....	3,572	1,719	70	24	8	235	423	149	3,790
Saw logs.....	318	.....	.....	.....	6,901	138	130	10,286	283
Other woods.....	107	1,446	285	380	19	11	140	267	.....
Total, class No. 5.....	70,647	180,022	364,396	603	204,490	33,225	5,952	65,377	62,719

APPENDIX A—Continued.

TABLE 5—STATEMENT of Traffic on the undermentioned Canals during the Season of Navigation in 1908—Concluded.

ARTICLES.	Class No. 6.	Welland Canal.	St. Lawrence Canal.	Chambly Canal.	Murray Canal.	Ottawa Canal.	Rideau Canal.	St. Peter's Canal.	Trent Valley Canal.	Sault Ste. Marie Canal.
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal, hard.....		172,523	389,163	95,336	397	23	9,358	626	84	338,749
" soft.....		144,398	266,775	175	14,430	24	3,757	40,865	66	2,051,360
Coke.....							12			40
Copper ore.....										8,855
Iron ".....		8,974	1,006	7,533	15	21		20		7,385,103
Other ".....		9,030		70		20	419	244	5	533
Stone, all kinds.....		23,760	21,026	4,627	175		2	4,602	12,432	10,470
Total, class No. 6.....		358,685	677,970	107,741	15,017	88	13,548	46,357	12,587	9,795,110
Grand total.....		1,703,453	2,009,102	503,276	25,901	258,527	89,640	72,015	81,690	12,759,216

DEPARTMENT OF RAILWAYS AND CANALS,
OTTAWA, April 15, 1908.

RICHARD DEVLIN,
Compiler of Canal Statistics.

SUPPLEMENTARY APPENDIX A.—Continued.

TABLE 6.—SUMMARY STATEMENT of Traffic on the undermentioned Canals during the Season of Navigation ended 31st December, 1908, showing the total quantity of each description of property passed through.

ARTICLES.	Welland Canal.	St. Lawrence Canals.	Chambly Canal.	Murray Canal.	Ottawa Canals.	Rideau Canal.	St. Peter's Canal.	Trent Valley Canals.	Sault Ste. Marie Canal.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Vessels of all kinds.....	1,663,171	2,700,547	354,993	207,281	225,780	189,940	95,560	225,819	9,638,887
Passengers	No.	No.	No.	No.	No.	No.	No.	No.	No.
	6,153	94,594	3,597	23,771	14,557	22,640	.....	85,291	30,227
Forest—Produce of Wood.									
Floats.....	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Firewood.....	5,369	372	402	.....	10,080	.....	.....	4,936	668
Pulpwood.....	4,293	86,511	302,384	.....	19,667	6,603	149	41,225	330
Lumber, sawed..	43,690	58,660	60,517	133	163,877	24,922	4,653	4,679	.....
Masts, spars, &c..	.....	.....	738	48	.....	40	15	.....	56,098
Railway ties.....	478	200	.....	17	38	272	240	.....	.....
Saw logs.....	318	.....	.....	.....	6,901	138	130	.....	1,353
Shingles.....	3,572	.....	70	24	8	235	423	10,286	283
Timber, square.....	12,820	31,114	.....	.....	3,900	1,004	202	149	3,790
Other woods.....	107	1,446	285	380	19	11	140	3,835	197
Total	70,647	180,022	364,396	603	204,490	33,225	5,952	65,377	62,719
Farm Stock.									
Cattle.....	.....	263	73	.....	229	2	9	52	.....
Hogs.....	.....	3	61	.....	26	.....	2	277	.....
Horses.....	.....	493	10	8	150	28	1	9	2
Sheep.....	.....	26	57	.....	118	.....	6	2	.....
Total .....	.....	785	201	8	523	30	18	340	2

SUPPLEMENTARY APPENDIX A.—Continued.
TABLE 6.—SUMMARY STATEMENT of Traffic on the undermentioned Canals, &c.—Continued.

ARTICLES.	Welland Canal.	St. Lawrence Canals.	Chambly Canal.	Murray Canal.	Ottawa Canals.	Rideau Canal.	St. Peter's Canal.	Trent Valley Canals.	Sault Ste. Marie Canal.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
<i>Produce of Animals.</i>									
Hides and leather.....	39	2	30	7	1	12	3	3	4
Dressed meats.....	..	35	2	.....	5	36	26	2	.....
Pork and pork products ..	868	1,049	6	1	3	164	182	.....	.....
Wool.....	.....	.....	2	.....	2	.....	.....	.....	.....
Agricultural products not enumerated, animal..	89	5,518	48	297	2,464	1,697	10	54	.....
Total.....	996	6,604	88	305	2,475	1,909	221	59	4
<i>Agricultural Products.</i>									
Agricultural products not enumerated, vegetable									
Barley.....	175	13,310	1,000	1,228	572	468	1,026	14	6,045
Buckwheat.....	31,172	27,483	17	200	.....	176	10	3	115,567
Corn.....	.....	850	.....	.....	.....	8	.....	.....	.....
Flour.....	127,402	26,134	43	.....	2	95	37	.....	.....
Hay, pressed. . .	23,209	10,151	476	.....	16	186	1,383	17	193,167
Meals, all kinds. . .	.....	5,504	7,812	.....	2,327	1,332	1,261	23	.....
Oats.....	21,628	371	24	.....	2	45	484	17	5,529
Pease.....	33,423	30,890	420	.....	495	474	3,566	21	156,370
Potatoes.....	40	145	9	24	.....	4	.....	64	.....
Rye.....	.....	183	128	.....	828	79	5,468	172	.....
Flax seed.....	6,667	6,783	.....	.....	.....	.....	.....	11	13,200
Wheat.....	32,088	30,607	.....	.....	.....	.....	.....	.....	172,043
	732,131	708,022	9	.....	.....	1,232	.....	416	1,757,221
Total.....	1,007,935	860,433	9,938	1,452	4,242	4,099	13,235	758	2,419,142
<i>Manufactures.</i>									
Agricultural implements.....	7,008	140	126	15	14	371	3	19	3,682
Bricks.....	1,748	10,775	729	.....	.....	1,309	56	472	680
Cement and water lime. . .	4,335	1,725	341	1,416	210	739	1,096	556	39,159
Crockery and earthenware.....	441	887	28	240	6	126	27	18	40
Furniture.....	1	2,381	92	170	58	147	21	35

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Glass of all kinds.....	3,444	5,696	11	539	142	328	85	119
Iron, pig and bloom.....	9,683	2,173	20	102	1	87	4	8	40,874
" all other.....	26,043	22,998	869	432	67	1,399	166	22	80,311
Nails.....	4,856	5,313	83	150	.....	568	69	.....	1,036
Oil.....	47,290	35,010	183	279	1	535	433	11	.....
Oil cake.....	.....	75	.....	.....	5	54	49	.....	.....
Paint.....	1,082	2,102	62	265	.....	134	.....	.....	20
Whisky and all other spirits.....	3,866	5,038	30	512	.....	603	37	11	96
Steel.....	17,095	40,768	45	358	.....	118	.....	.....	24,518
Total.....	126,892	135,081	2,619	4,478	504	6,518	2,046	1,152	190,535
Merchandise.									
Clay, lime and sand.....	325	49,952	9,630	800	43,545	21,421	17	.....	375
Coal, hard.....	172,523	389,163	95,336	397	23	9,358	626	84	338,749
" soft.....	144,398	266,775	175	14,430	24	3,757	40,865	66	2,051,360
Coke.....	.....	.....	.....	.....	.....	12	.....	.....	40
Fish.....	29	40	5	2	1	18	2,072	.....	53
Ores, all kinds.....	18,004	1,006	7,603	15	41	419	264	5	7,394,491
Salt.....	429	4,679	192	30	.....	2,560	420	6	14,393
Stone, all kinds.....	23,760	21,026	4,627	175	.....	2	4,602	12,432	10,470
All other goods and merchandise not enumerated	137,515	93,536	8,466	3,206	2,659	6,312	1,677	1,411	276,883
Total.....	496,983	826,177	126,034	19,055	46,293	43,859	50,543	14,004	10,086,814
Grand totals (passengers and tonnage of vessels not included.....)	1,703,453	2,009,102	503,276	25,901	258,527	89,640	72,015	81,690	12,759,216

APPENDIX A.—Continued.

TABLE 7 (No. 1).—GENERAL STATEMENT showing the Quantity of each Article transported on the Welland Canal during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		U. States.	Canadian.
Agricultural products not enumerated, vegetable	74	101							74	101	175		175
Agricultural products not enumerated, animal							89			89	89	89	
Agricultural implements.	7,000		6			2			7,002	2	7,008	2	7,006
Barley.		20,478				7,148		3,546		31,172	31,172	7,578	23,594
Bricks.								1,748		1,748	1,748	1,748	
Buckwheat													
Cement and water lime	4,335												
Clay, lime and sand		325											
Coal, hard	2,970		1,431		158,351		5,988	3,783	168,740	3,783	172,523	168,122	4,401
" soft.						99,830		144,398		144,398	144,398	144,398	
Corn.								27,572		127,402	127,402	127,402	
Coke.													4,335
Cattle.	358				13								325
Crockery and earthenware			70										4,401
Fish		29										13	
Flour.	22	1,976				17,694		3,517	22	23,187	23,209	21,211	1,998
Furniture.	1								1		1		1
Glass, all kinds.	2,298		1,146						3,444		3,444		3,444
Hay, pressed.													
Hogs													
Horses													
Hides and leather.	15					21		3	15	24	39	24	15
Iron, pig and bloom.	9,278		300					105	9,578	105	9,683	105	9,578
" all other.	24,556	28	390					1,069	24,946	1,097	26,043	1,097	24,946
Iron ore	4,196						2,389	2,389	6,585	2,389	8,974	4,778	4,196
Other ores.	7,630				1,400	21,353		34	9,030		9,030	1,400	7,630
Meal, all kinds		241								21,628	21,628	21,353	275
Dressed meats.													
Nails	3,976	842	38						4,014	842	4,856	3	4,853

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Oats	30,289					2,070		1,084		33,423	33,423	2,070	31,735
Oil, in barrels	30,431	265				15		16,487		46,933	47,290	16,588	30,230
Oil cake						40					40	40	
Pease													
Potatoes													
Pork and products						190		678		868	868	868	
Paint		766				1				54	1,082	1	1,081
Rye						2		6,651		6,667	6,667	6,653	14
Flaxseed								10,271		32,088	32,088	8,791	23,297
Salt								280		429	429	83	346
Stone, all kinds		500						456		7,932	23,760	15,784	7,976
Sheep													
Steel		5,848				9,086		1,911		10,997	17,095	10,997	6,098
Sugar													
Whisky and all other spirits		1,555						879		1,516	3,866	651	3,215
Wheat						24,651		252,455		730,751	732,131	252,791	479,340
Wool													
All other goods and merchandise not enumerated		50,366											
Floats						1,857		2,499		5,110	137,515	73,156	64,359
Firewood, in vessels													
Pulpwood						3,509				3,719	5,369	3,509	1,860
Lumber, sawn, in vessels											4,293		4,293
" " rafts						21,571		5,332		40,289	43,690	26,903	16,787
Masts, spars and telegraph poles, in rafts													
Railway ties, in vessels						478				478	478	478	
Sawlogs		260								58	318		318
Shingles		996									3,572		3,572
Timber, square, in vessels										12,820	12,820	8,520	4,300
" " rafts													
Other woods		55									107	2	105
Total freight	128,077	571,961	35,370	15,278	239,136	209,518	8,377	495,736	410,960	1,292,493	1,703,453	927,208	776,245

APPENDIX A—Continued.

TABLE 7 (No. 2) —GENERAL STATEMENT showing the Quantity of each Through Article transported on the Welland Canal, &c.—Con.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable.....	74	101							74	101	175		175
Agricultural products not enumerated, animal.....								89		89	89		
Agricultural implements..	7,000		6			2			7,006	2	7,008	2	7,006
Barley.....		29,478				7,148		3,546		31,172	31,172	7,578	23,594
Bricks.....	4,335							1,748		1,748	1,748	1,748	
Cement and water lime.									4,335		4,335		4,335
Clay, lime and sand		325								325	325		325
Coal, hard.....	2,970		1,431		158,351		5,988	3,783	168,740	3,783	172,523	168,122	4,401
" soft.....								144,398		144,398	144,398		
Corn.....						99,830		27,572		127,402	127,402		
Crockery and earthenware.....	358		70		13				441		441	13	428
Fish.....		29								29	29		29
Flour.....	22	1,976				17,694		3,517	22	23,187	23,209	21,211	1,998
Furniture.....	1								1		1		1
Glass, all kinds.....	2,298								3,444		3,444		3,444
Hides and leather..	15		1,146			21			15	24	39	24	15
Iron, pig and bloom.....	9,278		390					105	9,578	105	9,683	105	9,578
" all other.....	24,556	28	390					1,069	24,946	1,097	26,043	1,097	24,946
Iron ore.....	4,196						2,389	2,389	6,585	2,389	8,974	4,778	4,196
Other ore.....	7,630				1,400				9,030		9,030	1,400	7,630
Meal, all kinds.....		241				21,353				21,628	21,628	21,353	275
Nails.....	3,976		38					34		842	4,856	3	4,853
Oats.....		812						1,064		33,423	33,423	2,070	31,353
Oil (in barrels).....	265	30,289			72	15		15,487		46,933	47,290	16,588	30,702
Pease.....		30,431	20		40					40	40		
Pork and products.....						190		678		868	868		
Paint.....	766	53	262			1			1,028	54	1,082	1	1,081
Rye.....		14				2		6,651		6,667	6,667	6,653	14
Flaxseed..		21,817						10,271		32,088	32,088	8,791	23,297
Salt.....		149						280		429	429	83	346

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Stone, all kinds.....	600	15,328	456	15,328	1,056	16,384	15,784	600
Steel.....	5,848	1,911	6,098	10,997	17,095	10,997	6,098
Whisky and all other spirits.....	1,555	.....	.....	.....	879	2,350	1,516	3,866	651	3,215
Wheat.....	451,423	.....	.....	.....	252,455	1,380	730,421	731,801	252,791	479,010
All other goods and merchandise not enumerated.....	50,366	.....	.....	.....	.....	.....	.....	137,515	73,156	64,359
Firewood, in rafts.....	.....	.....	.....	.....	.....	.....	.....	5,369	3,509	1,860
Pulpwood.....	.....	.....	.....	.....	.....	.....	.....	4,293	.....	4,293
Lumber, sawn, in vessels.....	757	.....	.....	.....	.....	.....	.....	43,690	26,903	16,787
Railway ties in vessels.....	.....	.....	.....	.....	.....	.....	.....	478	478	.....
Shingles.....	996	.....	.....	.....	.....	.....	.....	3,572	.....	3,572
Timber, square, in vessels.....	.....	.....	.....	.....	.....	.....	.....	12,820	8,520	4,300
Other woods.....	55	.....	.....	.....	.....	.....	.....	107	2	105
Total through freight.....	127,317	564,697	35,370	15,278	239,136	209,518	8,377	495,736	410,200	1,695,429
										926,208
										768,221

TABLE 7 (No. 3).—GENERAL STATEMENT showing the Quantity of each Way Article transported on the Welland Canal during the Season of Navigation in 1908.

Way Articles.	From Canadian to Canadian Ports.		Tons.		Total Tons.
	Up.	Down.	Up.	Down.	
Sotne, all kinds	500	6,876	500	6,876	7,376
Wheat.....	330	330	330
Saw logs.....	260	58	260	58	318
Total way freight..	760	7,264	760	7,264	8,024

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APPENDIX A—Continued.

TABLE 7 (No. 4).—GENERAL STATEMENT showing the Quantity of each Article transported on the St. Lawrence Canals during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Down.		Down.		Down.		Down.		Up.	Down.		U. States	Canadian.
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.					
Agricultural products not enumerated, vegetable.....	9,377	3,933							9,377	3,933	13,310		13,310
Agricultural products not enumerated, animal.....	979	4,349		190					979	4,539	5,518		5,518
Agricultural implements..	131	9							131	9	140		140
Barley.....	306	2,859							306	2,859	3,165		3,165
Bricks..	8,981	20					231		8,981	251	9,232	231	9,001
Buckwheat.....	850								850		850		850
Cement and water lime.....	1,629	16		38			42		1,667	58	1,725		1,725
Clay, lime and sand.....	39,714	6,646							43,306	6,646	49,952	5,244	44,708
Coal, hard.....	1,371	5,699		2,403			335,998		5,391	341,697	347,088	344,814	2,274
" soft.....	183,272	18,699					64,804		183,272	83,503	266,775	81,858	184,917
Corn.....	1,256	13,164					840		1,676	14,004	15,680	2,156	13,524
Cattle.....	9	254							9	254	263		263
Crockery and earthenware.....	708	82		97					805	82	887		887
Fish.....	10	30							10	30	40		40
Flour.....	1,385	3,738							1,385	3,738	5,123		5,123
Furniture.....	543	1,830		8					543	1,838	2,381		2,381
Glass, all kinds.....	3,190	490							5,206	490	5,696		5,696
Hay, pressed.....	5,002	502		2,016					5,002	502	5,504		5,504
Hogs.....		3								3	3		3
Horses.....	167	306			14		6		181	312	493	1	492
Hides and leather.....					2				2		2		2
Iron, pig and bloom..	2,052	121							2,052	121	2,173		2,173
" all other.....	18,711	1,589		1,307			838		20,856	1,589	22,445	838	21,607
Iron ore.....	1,002	4							1,002	4	1,006		1,006
Meal, all kinds.....	60	155							60	155	215	34	181
Meats, dressed.....	35								35		35		35
Nails.....	4,826	167		317					5,143	167	5,310		5,310
Oats.....	80	2,729							80	2,729	2,809		2,809
Oil, in barrels.....	1,121	198		2,488	1				4,810	198	5,008	3,339	1,669
Oil cake.....	75								75		75		75

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Pease	85	60	85	60	145	145
Potatoes.....	150	33	150	33	183	183
Pork and pork products...	318	53	318	207	525	154	371
Paint	1,407	165	523	.....	.....	1,930	172	.....	2,102	.....	2,102
Rye.....	120	1	.....	.....	.....	120	1	.....	121	.....	121
Flax seed.....	1	871	.....	.....	.....	1	3,106	.....	3,107	2,235	872
Salt	3,764	439	57	.....	.....	3,821	439	.....	4,260	.....	4,260
Stone, all kinds.....	375	19,374	.....	5	.....	375	19,379	.....	19,754	165	19,589
Sheep.....	3	23	.....	.....	.....	3	23	.....	26	.....	26
Steel.....	37,235	3,373	160	.....	.....	37,395	3,373	.....	40,768	.....	40,768
Whiskey and all other spirits	2 446	536	1,000	.....	.....	3,446	536	.....	3,982	.....	3,982
Wheat.....	3,300	18,096	.....	.....	.....	3,300	18,096	.....	21,396	.....	21,396
All other goods and merchandise not enumerated.....	57,746	11,071	18,553	.....	.....	78,003	13,407	.....	91,410	5,561	85,849
Firewood, in vessels.....	372	.....	.....	.....	736	372	.....	.....	372	.....	372
Pulpwood.....	.....	.....	86,511	.....	.....	86,511	.....	.....	86,511	.....	86,511
Lumber, sawn, in vessels	36,104	626	21,846	.....	.....	57,950	626	.....	58,576	.....	58,576
" " rafts.....	.....	84	.....	.....	.....	.....	84	.....	84	.....	84
Railway ties, in vessels.....	1	50	149	.....	.....	150	50	.....	200	.....	200
Shingles.....	150	.....	1,569	.....	.....	1,719	.....	.....	1,719	.....	1,719
Timber, square, in vessels.....	844	1,330	53	.....	5	897	1,335	.....	2,232	.....	2,232
" " rafts.....	.....	28,882	.....	.....	.....	.....	28,882	.....	28,882	.....	28,882
Other woods.....	171	200	1,075	.....	.....	1,246	200	.....	1,446	.....	1,446
Total freight	431,434	152,859	140,162	198	753	580,984	559,720	1,140,704	446,630	694,074	
Articles having passed the Welland Canal—											
Barley.....	.....	22,388	.....	.....	.....	.....	24,318	.....	1,356	22,962	
Corn .....	.....	10,014	.....	.....	.....	.....	10,454	.....	10,454	.....
Oats.....	.....	28,051	.....	.....	.....	.....	28,081	.....	.....	.....
Rye.....	.....	2,251	.....	.....	.....	.....	6,662	.....	1,448	28,081	
Wheat.....	.....	574,906	.....	.....	.....	.....	686,626	.....	216,405	5,214	
Flax seed.....	.....	20,904	.....	.....	.....	.....	27,500	.....	8,076	470,221	
Flour.....	.....	1,511	.....	.....	.....	.....	5,028	.....	3,517	19,424	
Meals, all kinds.....	.....	156	.....	.....	.....	.....	156	.....	.....	1,511	
Bricks .....	.....	.....	.....	.....	.....	.....	1,543	.....	1,543	156	
Iron, all kinds.....	.....	28	.....	.....	.....	.....	553	.....	525	.....
Nails.....	.....	3	.....	.....	.....	.....	3	.....	.....	28	
Oils.....	.....	20,303	.....	.....	.....	.....	30,002	.....	9,699	3	
Pork and pork products .....	.....	.....	.....	.....	.....	.....	524	.....	524	20,303	
Salt .....	.....	69	.....	.....	.....	.....	419	.....	128	.....
Whiskey and all other spirits.....	.....	690	.....	.....	.....	.....	1,056	.....	387	301	
Merchandise .....	.....	481	.....	.....	.....	.....	2,126	.....	1,684	669	
Coal.....	3,472	5,299	.....	.....	.....	3,472	38,603	.....	38,603	442	
Stone, all kinds.....	.....	.....	.....	.....	.....	.....	1,272	.....	1,272	3,472	
Grand total, freight...	434,906	839,913	140,162	198	753	584,456	1,424,646	2,009,102	742,251	1,266,851	

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APPENDIX A—Continued.

No. (A) 5.—GENERAL STATEMENT showing the quantity of each Through Article transported on the St. Lawrence Canals during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable.....	512	3,365							512	3,365	3,877		3,877
Agricultural products not enumerated, animal.....	24	3,145							24	3,145	3,169		3,169
Agricultural implements.....		3								3	3		3
Barley.....		1,964								1,964	1,964		1,964
Bricks.....	1,854							231	1,854	231	2,085		2,085
Cement and water lime.....	137						42		175	42	217		217
Clay, lime and sand.....	620	10							620	10	630		630
Coal, hard.....	550	4,053							1,461	328,528	329,989		1,453
" soft.....	19,006	16,587					61,422		19,006	81,009	100,015		19,006
Corn.....		1,036								1,036	1,036		140
Crockery and earthenware.....	641	57							738	57	795		795
Fish.....	10	29							10	29	39		39
Flour.....	11	239							11	239	250		250
Furniture.....	392	1,286							392	1,294	1,686		1,686
Glass, all kinds.....	2,731	385							4,747	385	5,132		5,132
Hay, pressed.....	4								4		4		4
Horses.....		50								50	50		50
Iron, pig and bloom.....	1,092	64							1,902	64	1,966		1,966
" all other.....	11,410	395							12,717	395	13,112		13,112
Iron ore.....	1,000								1,000		1,000		1,000
Meal, all kinds.....		90								90	90		56
Nails.....	3,882	97							4,199	97	4,296		4,296
Oats.....		1,916								1,916	1,916		1,916
Oil, in barrels.....	651	125							3,139	125	3,264		1,126
Pease.....		45								45	45		45
Potatoes.....	5								5		5		5
Pork and pork products.....	54	16					154		54	170	224		70
Paint.....	1,159	110							1,682	117	1,799		1,799
Flaxseed.....		871					2,235			3,106	3,106		871

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Salt.....	246	32	57	303	32	335	335
Steel.....	27,088	322	160	27,248	322	27,570	27,570
Spirits, beer, &c.....	1,724	478	1,000	2,724	478	3,202	3,202
Wheat.....	176	13,824	.....	.....	.....	.....	176	13,824	14,000	.....	.....	14,000
All other goods and merchandise not enumerated.....	39,832	6,165	18,549	.....	.....	1,119	58,381	7,284	65,665	328	.....	65,337
Pulpwood.....	84,411	.....	.....	.....	.....	.....	84,411	.....	84,411	.....	.....	84,411
Lumber, sawn, in vessels.....	3,407	4	20,087	.....	.....	.....	23,494	4	23,498	.....	.....	23,498
Railway ties, in vessels.....	.....	.....	149	.....	.....	.....	149	.....	149	.....	.....	149
Shingles.....	.....	.....	1,569	.....	.....	.....	1,569	.....	1,569	.....	.....	1,569
Timber, square, in vessels.....	.....	1,300	53	.....	.....	.....	53	1,300	1,353	.....	.....	1,353
Other woods.....	10	.....	1,075	.....	.....	.....	1,085	.....	1,085	.....	.....	1,085
Total through freight.....	203,449	58,063	50,396	8	.....	392,685	253,845	450,756	704,601	415,330	.....	289,271
Barley.....	.....	22,388	.....	.....	.....	1,930	.....	24,318	24,318	1,356	.....	22,962
Corn.....	.....	10,014	.....	.....	.....	440	.....	10,454	10,454	.....	.....	.....
Oats.....	.....	28,051	.....	.....	.....	30	.....	28,081	28,081	.....	.....	.....
Rye.....	.....	2,251	.....	.....	.....	4,411	.....	6,662	6,662	.....	.....	28,081
Wheat.....	.....	574,906	.....	.....	.....	111,720	.....	686,626	686,626	216,405	.....	.....
Flax seed.....	.....	20,904	.....	.....	.....	6,596	.....	27,500	27,500	8,076	.....	470,221
Flour.....	.....	1,511	.....	.....	.....	3,517	.....	5,028	5,028	3,517	.....	19,424
Meal, all kinds.....	.....	156	.....	.....	.....	.....	.....	156	156	.....	.....	1,511
Bricks.....	.....	.....	.....	.....	.....	1,543	.....	1,543	1,543	1,543	.....	156
Iron, all other.....	.....	28	.....	.....	.....	525	.....	553	553	525	.....	.....
Nails.....	.....	3	.....	.....	.....	.....	.....	3	3	.....	.....	28
Oils.....	.....	20,303	.....	.....	.....	9,699	.....	30,002	30,002	9,699	.....	20,303
Pork and pork products.....	.....	.....	.....	.....	.....	524	.....	524	524	524	.....	.....
Salt.....	.....	69	.....	.....	.....	350	.....	419	419	.....	.....	419
Whiskey and all other spirits.....	.....	690	.....	.....	.....	366	.....	1,056	1,056	387	.....	669
Merchandise.....	.....	481	.....	.....	.....	1,645	.....	2,126	2,126	1,684	.....	442
Coal.....	3,472	5,299	.....	.....	.....	33,304	.....	38,603	42,075	38,603	.....	3,472
Stone, all kinds.....	.....	.....	.....	.....	.....	1,272	.....	1,272	1,272	1,272	.....	.....
Grand total, freight.....	206,921	745,117	50,396	8	.....	570,557	257,317	1,315,682	1,572,799	716,037	.....	856,962

APPENDIX A--Continued.

TABLE 7 (No. 6).—GENERAL STATEMENT showing the Quantity of each Way Article transported on the St. Lawrence Canals during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable.....	8,865	568							8,865	568	9,433		9,433
Agricultural products not enumerated, animal.	955	1,204		190					955	1,394	2,349		2,349
Agricultural implements.....	131	6							131	6	137		137
Barley.....	306	895							306	895	1,201		1,201
Bricks.....	7,127	20							7,127	20	7,147		7,147
Buckwheat.....	850								850		850		850
Cement and water line.....	1,492	16							1,492	16	1,508		1,508
Clay, lime and sand	39,094	6,636							42,686	6,636	49,322	5,244	44,078
Coal, hard.....	821	1,646		1,492					3,930	13,169	17,099	16,278	821
" soft.	164,266	2,112							164,266	2,494	166,760	849	165,911
Corn.....	1,256	12,128							1,676	12,968	14,644	1,260	13,384
Cattle.	9	254							9	254	263		263
Crockery and earthenware.	67	25							67	25	92		92
Fish.		1								1	1		1
Flour.....	1,374	3,499							1,374	3,499	4,873		4,873
Furniture.....	151	544							151	544	695		695
Glass, all kinds.....	459	105							459	105	564		564
Hay, pressed.....	4,998	502							4,998	502	5,500		5,500
Hogs.....		3								3	3		3
Horses.....	167	256			14	6			181	262	443	1	442
Hides and leather.....					2				2		2		2
Iron, pig and bloom.....	150	57							150	57	207		207
" all other.....	7,301	1,194							8,139	1,194	9,333	838	8,495
Iron ore.	2	4							2	4	6		6
Other ore.....													
Meal, all kinds.....	60	65							60	65	125		125
Meats, dressed.....	35								35		35		35
Nails.....	944	70							944	70	1,014		1,014
Oats.....	80	813							80	813	893		893

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Oil, in barrels.....	470	73	1	1,200	1,671	73	1,744	1,201	543
Oil cake.....	75	75	75	75
Pease.....	85	15	85	15	100	100
Potatoes.....	145	33	.....	.....	.....	.....	.....	145	33	178	.....	178
Pork and pork products.....	264	37	.....	.....	.....	.....	.....	264	37	301	.....	301
Paint.....	248	55	.....	.....	.....	.....	.....	248	55	303	.....	303
Rye.....	120	1	.....	.....	.....	.....	.....	120	1	121	.....	121
Flaxseed.....	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....	1
Salt.....	3,518	407	.....	.....	.....	.....	.....	3,518	407	3,925	.....	3,925
Stone, all kinds.....	375	19,374	.....	.....	.....	.....	.....	375	19,379	19,754	165	19,589
Sheep.....	3	23	.....	.....	.....	.....	.....	3	23	26	.....	26
Steel.....	10,147	3,051	.....	.....	.....	.....	.....	10,147	3,051	13,198	.....	13,198
Spirits, beer, &c.....	722	58	.....	.....	.....	.....	.....	722	58	780	.....	780
Wheat.....	3,124	4,272	.....	.....	.....	.....	.....	3,124	4,272	7,396	.....	7,396
Wool.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
All other goods and merchandise not enumerated.....	17,914	4,906	.....	736	1,217	968	.....	19,622	6,123	25,745	5,233	20,515
Floats.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fire wood, in vessels.....	372	.....	.....	.....	.....	.....	.....	372	.....	372	.....	372
Pulpwood.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lumber, sawn, in vessels.....	32,697	622	2,100	.....	.....	.....	.....	2,100	.....	2,100	.....	2,100
" " in rafts.....	.....	84	1,753	.....	.....	.....	.....	34,456	622	35,078	.....	35,078
Masts, spars and telegraph poles, in rafts.....	.....	.....	.....	.....	.....	.....	.....	.....	84	84	.....	84
Railway ties, in vessels.....	1	50	.....	.....	.....	.....	.....	1	50	51	.....	51
Sawlogs.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shingles.....	150	.....	.....	.....	.....	.....	.....	150	.....	150	.....	150
Timber, square, in vessels.....	844	30	.....	.....	.....	.....	.....	844	35	879	.....	879
" " in rafts.....	.....	28,882	.....	.....	.....	.....	.....	.....	28,882	28,882	.....	28,882
Other woods.....	161	200	.....	.....	.....	.....	.....	161	200	361	.....	361
Total way freight.....	312,396	94,796	5,355	190	753	1,233	8,635	327,139	108,964	436,103	31,069	405,034

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APPENDIX A—Continued.

TABLE 7.—(No. 7.)—GENERAL STATEMENT showing the Quantity of each Article transported on the Ottawa Canals, during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable.		572								572	572		
" " animals.		2,464								2,464	2,464		
Agricultural implements.		14								14	14		
Barley.													
Bricks.													
Buckwheat.													
Cement and water-lime.		210								210	210		
Clay, lime and sand.		43,545								43,545	43,545		
Coal, hard.		23								23	23		
" soft.		24								24	24		
Corn.		2								2	2		
Coke.													
Cattle.													
Crockery and earthenware.		229								229	229		
Fish.		6								6	6		
Flour.		1								1	1		
Furniture.		16								16	16		
Glass, all kinds.		58								58	58		
Hay, pressed.		142								142	142		
Hogs.		2,327								2,327	2,327		
Horses.		26								26	26		
Hides and leather.		150								150	150		
Iron, pig and bloom.		1								1	1		
" all other.		1								1	1		
" ore.		67								67	67		
Other ores.		21								21	21		
Meal, all kinds.		20								20	20		
Meats, dressed.		2								2	2		
Nails.		5								5	5		
Oats.													
		495								498	498		

APPENDIX A—Continued.

TABLE 7 (No. 4.)—(GENERAL STATEMENT showing the Quantity of each Article transported on the Chambly Canal during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canada.
Agricultural products not enumerated, Vegetables.....	71	927							71	929	1,000		1,000
Agricultural products not enumerated, Animal.....	1	47							1	47	48		48
Agricultural Implements.	126								126		126		126
Barley	17								17		17		17
Bricks.....	47							682	47	682	729		47
Buckwheat.....													
Cement and water lime.	171						170		171	170	341		171
Clay, lime and sand.....	532						9,098		532	9,098	9,630		532
Coal, hard.....	2						95,334		2	95,334	95,336		12
" soft	1	2					172		1	174	175		3
Corn	43								43		43		43
Coke													
Cattle		73								73	73		73
Crockery and earthenware.	28								28		28		28
Fish	5								5		5		5
Flour.....	473	3							473	3	476		476
Furniture.. ..	66	26							66	26	92		92
Glass, all kinds.....	11								11		11		11
Hay, pressed.....		6,513	1,299						1,299	6,513	7,812		7,812
Hogs.....	2	59							2	59	61		61
Horses.....	3	7							3	7	10		10
Hides and leather.....	22	8							22	8	30		30
Iron, pig and bloom.....	20								20		20		20
" all other.....	28	1					840		28	841	869		29
Iron ore.....	60						7,473		60	7,473	7,533		60
Ores, all other.....	70								70		70		70
Meal, all kinds	23	1							23	1	24		24
Dressed meats.....	2								2		2		2

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APPENDIX A—Continued.

TABLE 7.—(No. 9.) GENERAL STATEMENT showing the Quantity of each Article transported on the Rideau Canal during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Charge.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable.....	131	337							131	337	468		468
Agricultural products not enumerated, animal.....	235	1,462							235	1,462	1,697		1,697
Agricultural implements.....	173	198							173	198	371		371
Barley.....		176								176	176		176
Bricks.....	1,148	161							1,148	161	1,309		1,309
Buckwheat.....	8								8		8		8
Cement and water-lime.....	424	315							424	315	739		739
Clay, lime and sand.....	12,380	9,041							12,380	9,041	21,421		21,421
Coal, hard.....	253	64							253	64	9,358	9,081	277
" soft.....	707	17							707	17	3,757	3,037	720
Corn.....	12	71							12	71	95		95
Coke.....		12								12	12		12
Cattle.....	2								2		2		2
Crockery and earthenware.....	77	49							77	49	126		126
Fish.....	17	1							17	1	18		18
Flour.....	60	126							60	126	186		186
Furniture.....	83	64							83	64	147		147
Glass all kinds.....	220	108							220	108	328		328
Hay pressed.....	1,225	107							1,225	107	1,332		1,332
Hogs.....													
Horses.....	11	17							11	17	28		28
Hides and leather.....	6	6							6	6	12		12
Iron, pig and bloom.....	70	17							70	17	87		87
" all other.....	1,078	321							1,078	321	1,399		1,399
" ore.....													
Other ores.....		419								419	419		419
Meal, all kinds.....	15	30							15	30	45		45
Dressed meats.....	16	20							16	20	36		36
Nails.....	525	43							525	43	568		568

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Oats.....	46	428	46	428	474	474	474	474
Oil, in barrels.....	371	164	371	164	535	535	535	532
Oil cake.....	45	9	45	9	54	54	3	54
Pease.....		4		4	4	4		4
Potatoes.....	73	6	73	6	79	79		79
Pork and pork products.....	135	29	135	29	164	164		164
Paint.....	122	12	122	12	134	134		134
Rye.....								
Flaxseed.....		406		406	2,560	2,560		2,560
Salt.....	2,154	2	2,154	2	2	2		2
Stone, all kinds.....								
Sheep.....								
Steel.....	113	5	113	5	118	118		118
Whisky and all other spirits.....	441	162	441	162	603	603		603
Wheat.....	23	1,209	23	1,209	1,232	1,232		1,232
Wool.....								
All other goods and merchandise not enumerated.....	3,702	2,610	3,702	2,610	6,312	6,312		6,312
Floats.....	5,556	1,047	5,556	1,047	6,603	6,603		6,603
Firewood.....								
Pulpwood.....	6,366	12,285		1,998	24,922	24,922		24,922
Lumber, sawn, in vessels.....				4,051				
" " rafts.....								
Masts, spars and telegraph poles in rafts.....	272	40	272	40	40	40		40
Railway ties, in vessels.....	85	53	85	53	272	272		372
Sawlogs.....	185	50	185	50	138	138		138
Shingles.....	4		4		235	235		235
Timber, square, in vessels.....	1,000		1,000		4	4		4
" " rafts.....	1	10	1	10	1,000	1,000		1,000
Other woods.....					11	11		11
Total freight.....	39,570	31,713	41,568	48,072	89,640	89,640	12,121	77,519

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APPENDIX A—Continued.

TABLE 7.—(No. 11.)—GENERAL STATEMENT showing the Quantity of each Article transported on the St. Peters Canal during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian ports.		From Canada to United States ports.		From United States to United States ports.		From United States to Canadian ports.		Tons.		Total tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canada.
Agricultural products not enumerated, vegetable.	1,026								1,026		1,026		
Agricultural products not enumerated, animal.	10								10		10		
Agricultural implements.	3								3		3		
Barley.	10								10		10		
Bricks.	56								56		56		
Bones.													
Buckwheat.													
Cement and water lime.	94	1,002							94	1,002	1,096		
Clay, lime and sand.	2	15							2	15	17		
Coal, hard.	626								626		626		
Coal, soft.	110	40,755							110	40,755	40,865		
Corn.	37								37		37		
Coke.													
Cattle.	9								9		9		
Crockery and earthenware.	27								27		27		
Fish.	188	1,884							188	1,884	2,072		
Flour.	1,338	45							1,338	45	1,383		
Furniture.	20	1							20	1	21		
Glass, all kinds.	83	2							83	2	85		
Hay, pressed.	1,283	23							1,238	23	1,261		
Hogs.	2								2		2		
Horses.	1								1		1		
Hides and leather.	3								3		3		
Iron, pig and bloom.	4								4		4		
Iron, all other.	31	135							31	135	166		
Iron ore.		20								20	20		
Other ores.		244								244	244		
Meal, all kinds.	484								484		484		

APPENDIX A—Continued.

TABLE 7.—(No. 11.) —GENERAL STATEMENT showing the Quantity of each Article Transported on the Trent Valley Canals during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian ports.		From Canadian to United States ports.		From United States to United States ports.		From United States to Canadian ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		United States.	Canadian.
Agricultural products not enumerated, vegetable	14	...	...	...	...	...	...	...	14	.....	14	.....
Agricultural products not enumerated, animal	13	41	...	...	...	...	...	...	13	41	54	.....
Agricultural implements	9	10	...	...	...	...	...	...	9	10	19	.....
Barley	3	...	...	...	...	...	...	...	3	...	3	.....
Bricks	242	230	...	...	...	...	...	...	242	230	472	.....
Bones	...	...	...	...	...	...	...	...	...	...	...	.....
Buckwheat	...	...	...	...	...	...	...	...	...	...	...	.....
Cement and water lime	479	77	...	...	...	...	...	...	479	77	556	.....
Clay, lime and sand	...	...	...	...	...	...	...	...	...	23	84	.....
Coal, hard	61	23	...	...	...	...	...	...	61	23	84	.....
" soft	66	...	...	...	...	...	...	...	66	...	66	.....
Corn	...	...	...	...	...	...	...	...	...	...	...	.....
Coke	...	...	...	...	...	...	...	...	...	...	...	.....
Cattle	18	34	...	...	...	...	...	...	18	34	52	.....
Crockery and earthenware	18	...	...	...	...	...	...	...	18	...	18	.....
Fish	...	...	...	...	...	...	...	...	...	...	...	.....
Flour	3	14	...	...	...	...	...	...	3	14	17	.....
Furniture	16	19	...	...	...	...	...	...	16	19	35	.....
Glass, all kinds	...	...	...	...	...	...	...	...	...	...	...	.....
Hay, pressed	21	2	...	...	...	...	...	...	21	2	23	.....
Hogs	238	39	...	...	...	...	...	...	238	39	277	.....
Horses	...	9	...	...	...	...	...	...	...	9	9	.....
Hides and leather	3	...	...	...	...	...	...	...	3	...	3	.....
Iron, pig and bloom	3	5	3	5	8	
" all other	10	12	10	12	22	
Iron ore	
Other ores	...	5	5	5	
Meal, all kinds	1	16	1	16	17	

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APPENDIX A—Concluded.

TABLE 7.—(No. 13.)—(GENERAL STATEMENT showing the Quantity of each Article transported on the Sault Ste. Marie Canal during the Season of Navigation in 1908.

Articles.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From United States to United States Ports.		From United States to Canadian Ports.		Tons.		Total Tons.	Origin of Cargo.	
	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.	Up.	Down.		U. States.	Canadian.
Agricultural products not enumerated, vegetable.	40	298				5,707			40	6,005	6,045	5,707	338
Agricultural products not enumerated, animal.													
Agricultural implements.	3,682	31,528							3,682		3,682		3,682
Barley.	680			4,504		79,535				115,567	115,567	77,583	37,984
Bricks.									680		680		680
Buckwheat.													
Cement and lime.	28,908		270		9,401		580		39,159		39,159	8,821	30,338
Clay and sand.		375								375	375		375
Coal, hard.	5,186				237,186		90,577	5,800	332,949	5,800	338,749	338,749	
" soft.	35,633				1,130,984	34,950	826,393	23,400	1,993,010	58,350	2,051,360	2,050,674	686
Corn.									40		40		40
Coke.	40												
Cattle.													
Crockery and earthenware.	46								40		40		40
Fish.		53								53	53		53
Flour.	82	83,917	55			104,298		4,815	137	193,030	193,167	100,058	93,109
Furniture.													
Glass, all kinds.	119								119		119		119
Hay, pressed.													
Hogs.													
Horses.	2								2		2		2
Hides and leather.	4								4		4		4
Iron, pig and bloom.	24,221					13,287	3,366		27,587	13,287	40,874	16,653	24,221
" all other.	47,929	3,723	545		20,910	224	6,350	630	75,734	4,577	80,311	25,852	54,459
Iron ore.		121,423		10,050		7,185,745	22,752	45,133	22,752	7,362,351	7,385,103	7,280,341	104,762
Copper ore.						8,855				8,855	8,855	8,734	121
Other ore.	533								533		533		533

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	953				4,526		50		5,529	5,529	4,440	1,059
Meal, all kinds.												
Dressed meat												
Nails.....	1,036							1,036				1,036
Oats.....	1,824				22,702		648	1,824	154,546	156,370	18,883	137,487
Oil, in barrels..												
Oil cake.....												
Pease.....												
Potatoes.....												
Pork and pork products												
Paint.....	20							20		20		20
Rye.....							728		13,200	13,200	13,186	14
Flax seed.....	30,205				12,458				172,043	172,043	137,554	34,489
Salt.....	6,100				138,954				100	14,393	6,407	7,986
Stone, all kinds.	68							14,293		10,470	10,402	68
Sheep.....								10,470				
Steel.....	18,745							24,438		24,518	5,693	18,825
Whisky and all other spirits.....	96							96		96		96
Wheat.....					367,082		136,340		1,757,221	1,757,221	484,156	1,273,065
Wool.....												
All other goods and merchandise not enumerated												
Floats.....	193,295				11,661		682	255,511	21,372	276,883	52,790	224,093
Fire wood, in vessels.....	584							584	84	668		668
Lumber, sawn, in vessels.....									330	330		330
" " in rafts.....	7,617				14,347			8,768	46,686	55,454	15,887	39,567
Masts, spars and telegraph poles, in rafts	14							639	5	644	625	19
Railway ties, in vessels.												
Saw logs.....	1,353							1,353		1,353		1,353
Shingles.....	150							150	133	283		283
Timber, square, in vessels					3,790				3,790	3,790	3,790	
" " in rafts	197							197		197		197
Other woods.												
Total freight.....	378,198	1,486,689	17,940	230,333	1,464,421	8,008,121	218,226	2,815,847	9,943,369	12,759,216	10,666,985	2,092,231

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TABLE 8.—STATEMENT showing the Classified Tonnage of all kinds of
WELLAND

CANADIAN.							
Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1	250 to 1,728 tons.....	80	74,719	1	250 to 1,226 tons.....	14	6,251
2	200 " 249 "	4	880	2	200 " 249 "	4	870
3	150 " 199 "	6	965	3	150 " 199 "	6	900
4	100 " 149 "	5	620	4	100 " 149 "	6	600
5	50 " 99 "	7	470	5	50 " 99 "	7	435
6	Under 50 "	73	988	6	Under 50 "	14	174
	Total.....	175	78,642		Total.....	51	9,230

ST. LAWRENCE

1	250 to 1,597 tons	66	53,062	1	250 to 1,453 tons	78	36,686
2	200 " 240 "	4	895	2	200 " 249 "	10	2,150
3	150 " 199 "	10	1,670	3	150 " 199 "	51	8,365
4	100 " 149 "	9	995	4	100 " 149 "	96	11,615
5	50 " 99 "	20	1,430	5	50 " 99 "	45	3,585
6	Under 50 "	173	2,162	6	Under 50 "	20	423
	Total.....	282	60,214		Total.....	300	62,824

RIDEAU, OTTAWA

1	250 to 678 tons.....	3	1,345	1	250 to — tons.....	4	1,060
2	200 " 249 " .....	.....	.....	2	200 " 249 "	2	410
3	150 " 199 "	3	500	3	150 " 199 "	46	7,424
4	100 " 149 "	6	700	4	100 " 149 "	43	5,230
5	50 " 99 "	20	1,215	5	50 " 99 "	14	875
6	Under 50 "	259	2,496	6	Under 50 "	44	810
	Total	291	6,256		Total.....	153	15,809

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Vessels passed through the Canals during the Season of Navigation in 1908.

CANAL.

UNITED STATES.							
Class.	Steam Vessels.	No.	Tonnage.	Class.	Sailing Vessels.	No.	Tonnage.
1	250 to 1,673 tons.....	64	55,832	1	250 to 970 tons.....	9	6,818
2	200 " 249 "			2	200 " 249 "	2	460
3	150 " 199 "			3	150 " 199 "		
4	100 " 149 "	5	575	4	100 " 149 "	1	100
5	50 " 99 "	17	1,080	5	50 " 99 "	2	150
6	Under 50 "	50	599	6	Under 50 "	4	36
	Total	136	58,086		Total.....	18	7,564

CANALS.

1	250 to 1,552 tons.....	30	24,677	1	250 to 1,332 tons.....	10	7,368
2	200 " 249 "			2	200 " 249 "	1	200
3	150 " 199 "			3	150 " 199 "		
4	100 " 149 "	1	120	4	100 " 149 "	20	2,145
5	50 " 99 "	7	490	5	50 " 99 "	94	6,010
6	Under 50 "	36	557	6	Under 50 "	1	30
	Total	74	25,844		Total.....	126	15,753

AND CHAMBLY CANALS.

1	250 to — tons			1	250 to — tons.....		
2	200 " 249 "			2	200 " 249 "		
3	150 " 199 "			3	150 " 199 "	9	1,435
4	100 " 149 "	2	205	4	100 " 149 "	441	45,870
5	50 " 99 "	2	145	5	50 " 99 "	162	15,090
6	Under 50 "	36	477	6	Under 50 "	5	160
	Total.....	40	827		Total.....	617	62,555

APPENDIX B.

DOMINION CANALS.

The canal systems of the Dominion, under government control in connection with lakes and navigable rivers, are as follows:—

First—The through route between Montreal and the head of Lake Superior (14 feet minimum depth of water.)

	Miles.
1. Lachine canal..	8½
Lake St. Louis and River St. Lawrence..	16
2. Soulanges canal..	14
Lake St. Francis and River St. Lawrence..	33
3. Cornwall canal..	11
River St. Lawrence..	5
4. Farran's Point canal..	1½
River St. Lawrence..	10
5. Rapide Plat canal..	3¾
River St. Lawrence..	4
6. Galops canal..	7½
River St. Lawrence and Lake Ontario..	236
7. Welland canal..	26¾
Lake Erie, Detroit river, Lake St. Clair, Lake Huron, &c.	580
8. Sault Ste. Marie canal..	1¼
Lake Superior to Port Arthur..	266
Total..	1,223½
To Duluth..	1,357
Chicago..	1,286

Second.—Ottawa to Lake Champlain.

1. Grenville. 2. Carillon. 3. St. Anne's. 4. Chambly. 5. St. Ours canals.

Third.—Ottawa to Kingston and Perth.

1. Rideau canal.

Fourth.—Lake Ontario at Trenton to Lake Huron at mouth of River Severn.

1. Trent canal (not completed).

Fifth.—Ocean to the Bras d'Or lakes.

1. St. Peter's canal.

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RIVER ST. LAWRENCE AND LAKES.

The River St. Lawrence with the system of canals established on its course above Montreal, and the Lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur, at the head of Lake Superior, a distance of 2,200 statute miles. The distance to Duluth is 2,343 statute miles. The distance to Chicago, 2,272 miles.

From the Straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from ten to twelve feet were formerly barred from passage for the greater part of the season of navigation. In 1826, the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year, the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 feet 6 inches. By the year 1869, this depth had been increased to 20 feet, by 1882 to 25 feet, and by the close of 1888 the depth of 27½ feet, at low water, was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888, under the provisions of the Act 51 Vic., ch. 5, of that year, assumed the indebtedness. The channel has a minimum width of 300 feet, extending to 550 feet at points of curvature. The channel is lighted and buoyed.

Navigation, which is closed by ice during the winter months, opens about the end of April.

Montreal has by this work been placed at the head of ocean navigation, and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upwards is obstructed, and giving access through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie canal, to the head of Lake Superior.

The difference in level between the point on the St. Lawrence, near Three Rivers, where tidal influence ceases, and Lake Superior, is about 600 feet.

The Dominion canals, constructed between Montreal and Lake Superior, are the Lachine, Soulanges, Cornwall, Farran's Point, Rapide Plat, Galops, Murray, Welland and Sault Ste. Marie. Their aggregate length is 73 miles; total lockage (or height directly overcome by locks), 551 feet. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior is 48. The Soulanges canal takes the place of the Beauharnois canal; the latter may be abandoned for navigation purposes.

Communication between Lakes Huron and Superior is obtained by means of the Canadian Sault Ste. Marie canal, and also by the St. Mary's Falls canal, situated on the United States side of the River St. Mary. Both these canals are free of toll.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length, 270 feet; width, 45 feet; depth of water on sills, 14 feet. The length of the vessels to be accommodated is limited to 255 feet. At Farran's, in the canal of that name, the lock is 800 feet long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

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LACHINE CANAL.

First construction commenced.....	1821
“ completed.....	1825
First enlargement commenced.....	1843
“ completed.....	1848
Second enlargement commenced.....	1873
“ completed.....	1901
Length of canal.....	8½ statute miles.
Number of locks.....	5
Dimensions of locks.....	270 feet by 45 feet.
Total rise of lockage.....	45 feet.
Depth of water {at two locks.....	18 “
on sills. {at three locks.....	14 “
Average width of new canal.....	150 “

The old lift locks, 200 feet by 45 feet, are still available, with 9 feet of water on mitre sills.

The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end.

The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of the series of rapids which bars the ascent of the River St. Lawrence. They are 986 miles distant from the Straits of Belle Isle.

SOULANGES CANAL.

Construction commenced.....	1892
Open for traffic.....	1899
Length of canal.....	14 statute miles.
Number of locks {lift.....	4
{guard.....	1
Dimensions of locks.....	280 feet by 45 feet.
Total rise of lockage.....	84 feet
Depth of water on sills.....	15 “
Breadth of canal at bottom.....	100 “
Breadth of canal at water surface.....	164 “
Number of arc lights.....	219 of 2,000 c. p. each.

The canal extends from Cascade point to Coteau Landing, overcoming the Cascade Rapids, Cedar rapids and Coteau rapids.

From the head of the Lachine to the foot of the Soulanges, the distance is sixteen miles.

CORNWALL CANAL.

First commenced, 9 feet.....	1844
“ opened.....	1847
Enlargement commenced.....	1897
“ completed.....	1900
Length of canal.....	11 statute miles.
Number of locks.....	6
Dimensions of locks.....	270 feet by 75 feet.
Total rise of lockage.....	48 feet.
Depth of water on sills.....	14 “
Breadth of canal at bottom.....	100 “
Breadth of canal at water surface.....	164 “

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The old lift locks, 200 feet by 45 feet, are also available, with nine feet of water on mitre sills.

From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis, of 32½ miles, which is being made navigable for vessels drawing fourteen feet.

The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickinson's landing.

WILLIAMSBURG CANALS.

The Farran's Point, Rapide Plat and Galops canals are collectively known as the Williamsburg Canals.

FARRAN'S POINT CANAL.

First commenced, 9 feet	1844
“ opened	1847
Enlargement commenced.. .. .	1897
“ completed.. .. .	1900
Length of canal.. .. .	1½ miles.
Number of locks	1
New lock	800 feet by 45 feet
Old lock	200 “
Total rise or lockages	3½ feet.
Depth of water on sills of new lock	14 “
Depth of water on sills of old lock	9 “
Breadth of canal at bottom	90. “
Breadth of canal at water surface.. .. .	154 “

From the head of the Cornwall canal to the foot of Farran's Point canal, the distance on the River St. Lawrence is five miles. The latter canal enables vessels ascending the river to avoid Farran's Point rapid, passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

RAPIDE PLAT CANAL.

First commenced, 9 feet	1844
“ opened	1847
Enlargement commenced	1884
“ completed	1897
Length of canal.. .. .	3¾ miles.
Number of locks	2
Dimensions of locks	270 feet by 45 feet.
Total rise in lockage.. .. .	11½ feet.
Depth of water on sills.. .. .	14 “
Breadth of canal at bottom.. .. .	80 “
Breadth of canal at surface of water.	152 “

The old lift lock, 200 feet by 45, is also available, with nine feet of water on mitre sills.

From the head of Farran's Point canal to the foot of Rapide Plat canal, there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

GALOPS CANAL.

First commenced, 9 feet.....	1844
Opened.....	1846
Enlargement commenced.....	1888
“ completed.....	1903
Length of canal.....	7¾ miles.
Number of locks.....	3
Dimensions of locks. { one of which is }.....	2-270 by 45.
{ a guard lock. }.....	1-800 by 45.
Total rise of lockage.....	15½ feet.
Depth of water on sills.....	14 “
Breadth of canal at bottom.....	80 “
Breadth of canal at surface of water.....	144 “

From the head of Rapide Plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. The canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

MURRAY CANAL.

Construction begun.....	1882
Completed.....	1890
Length between eastern and western pier heads.....	5½ miles.
Breadth at bottom.....	80 feet.
Breadth at water surface.....	120
Depth below lowest known lake level.....	11
No locks.	

This canal extends through the Isthmus of Murray, giving connection westward between the head waters of the Bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation.

WELLAND CANAL.

Main line from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie.

	Old Line.	Enlarged or New Line.
Length of Canal..	27½ miles	26¾ miles
Pairs of guard-gates (formerly 3) .. ..	..	2
Number of locks {	lift..... 26	25
	guard..... 1	1
Length of canal		
Dimensions..... {	1 lock 200 x 45 1 lock 200 x 45 1 (tidal) 230 x 45 24 locks 150 x 45	270 feet x 45 feet.
Total rise or lockage 326¾ feet....	326¾ feet	326¾ feet.
Depth of water on sills..	10¼ “	14 “
Construction commenced, 10 feet 3 inches..		1824
“ Completed..		1833
Enlargement commenced, 14 feet..		1872
“ completed..		1887

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WELLAND RIVER BRANCHES.

Length of canal—	
Port Robinson cut to River Welland	2,622 feet.
From the canal at Welland to the river, via lock at Aqueduct	300 “
Chippewa cut to River Niagara.. . . .	1,020 “
Number of locks—one at Aqueduct and one at Port Robinson.. . . .	
	2
Dimensions of locks.. . . .	150 by 26½ feet.
Total lockage from the canal at Welland down to River Welland.. . . .	
	10 feet.
Depth of water on sills.. . . .	9 feet 10 inches.

GRAND RIVER FEEDER.

Length of canal	21 miles.
Number of locks.. . . .	2
Dimensions of locks.	} 1 of 150 by 26½ feet. 1 of 200 by 45 feet.
Total rise or lockage	
	7 to 8 feet.
Depth of water on sills.. . . .	9 feet.

PORT WELLAND BRANCH.

Length of canal	1¾ miles.
Number of locks.. . . .	1
Dimensions of locks	185 feet by 45 feet.
Total rise or lockage	7½ feet.
Depth of water on sills.. . . .	11 “

The Welland canal has two entrances from Lake Ontario, at Port Dalhousie, one for the old, the other for the new canal.

From Port Dalhousie to Allanburg, 11¾ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line.

From Allanburg to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

From the head of the Welland canal there is a deep water navigation through Lake Erie, the Detroit river, Lake St. Clair, the St. Clair river, Lake Huron and River St. Mary to the Sault canal, a distance of about 580 miles. From the Sault the distance through Lake Superior to Port Arthur is 266 miles, and to Duluth 400 miles.

SAULT STE. MARIE CANAL.

Construction commenced.. . . .	1888
Opened for traffic.. . . .	1895
Length of canal, between the extreme ends of the entrance piers.. . . .	
	5,967 feet.
Number of locks.. . . .	1
Dimensions of locks.. . . .	900 feet by 60 feet.
Depth of water on sills (at lowest known water level)	
	20 feet by 3 inches.
Total rise or lockage.. . . .	18 feet.
Breadth of canal at bottom	141 feet 8 inches.
Breadth at surface of water	150 feet.

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This canal has been constructed through St. Mary's island, on the north side of the rapids of the River St. Mary, and, with that river, gives communication on Canadian territory between Lakes Huron and Superior. The masonry pier of the bridge carrying the Canadian Pacific Railway over the canal, which stood in the channel of the canal, forming an obstruction to navigation, has been removed; the swing now spanning the full width of the channel or prism of the canal.

MONTREAL, OTTAWA AND KINGSTON.

This route extends from the harbour of Montreal to the port of Kingston, passing through the Lachine canal, the navigation section of the lower River Ottawa, and the Ottawa canals, to the city of Ottawa; thence by the River Rideau and the Rideau canal to Kingston, on Lake Ontario—a total distance of 245½ miles.

After leaving the Lachine canal the works constructed to overcome difficulties of navigation are:—

Ottawa River Canals.

- The Ste. Anne's lock.

Carillon canal.
- Grenville canal.

Rideau canal.

The total lockage (not including that of the Lachine canal) is 509 feet (345 rise, 164 fall)—and the number of locks is 55.

The following table exhibits the intermediate distances from Montreal harbour:—

Sections of Navigation.	Interme- diate Distance.	Total Distance, from Montreal.
	Miles.	Miles.
The Lachine canal.....	8½	
From Lachine to Ste. Anne's lock.....	15	23
Ste. Anne's lock and piers... ..	½	23
Ste. Anne's lock to Carillon canal.....	27	50
The Carillon canal.....	¼	51
The Carillon to Grenville canal.....	6¼	57
The Grenville canal.....	5¾	63
From the Grenville canal to entrance of Rideau navigation.....	56	119
Rideau navigation ending at Kingston.....	126½	245

STE. ANNE'S LOCK.

- Construction commenced..

“ completed..

Rebuilt of wood..

“ in masonry..
1814.

1816

1833

1843.

	Old Lock.	New Lock.
Length of canal..	⅛ mile.	⅛ mile.
Number of locks..	1	1
Dimensions of locks..	190 x 45 feet.	200 x 45 feet.
Total rise or lockage..	3 feet.	3 feet.
Depth of water on sills..	6 “	9 “

This work, with guide piers above and below, surmounts the Ste. Anne's rapids between Ile Perrot and the head of the Island of Montreal, at the outlet of that portion of the River Ottawa which forms the Lake of Two Mountains, 23½ miles from Montreal harbour.

THE CARILLON CANAL.

Construction commenced..	1819
“ completed..	1833
Enlargement commenced..	1871
“ completed..	1887
Length of canal..	$\frac{3}{4}$ mile.
Number of locks..	2
Dimensions of locks..	200 x 45 feet.
Total rise or lockage..	16 feet.
Depth of water on sills..	9 “
Breadth of canal at bottom..	100 “
Breadth of canal at water surface..	110 “

This canal overcomes the Carillon rapids.

From Ste. Anne’s lock to the foot of the Carillon canal there is navigable stretch of 27 miles, through the Lake of Two Mountains and the River Ottawa.

By the construction of the Carillon dam across the River Ottawa the water at that point is raised 9 feet, enabling the river above to be used for navigation.

GRENVILLE CANAL.

Construction commenced..	1819
“ completed..	1833
Enlargement commenced..	1871
“ completed..	1887
Length of canal..	$5\frac{3}{4}$ miles.
Number of locks..	5
Dimensions of locks..	200 x 45 feet.
Total rise or lockage..	$43\frac{3}{4}$ feet.
Depth of water on sills..	9 “
Breadth of canal at bottom..	40 to 50 feet.
Breadth of canal at surface of water..	50 to 80 “

This canal, by which the Long Sault rapids are avoided, is about 56 miles below the city of Ottawa, up to which point the River Ottawa affords unimpeded navigation.

RIDEAU NAVIGATION.

Construction commenced..	1826
“ completed..	1832

The Rideau system connects the River Ottawa, at the city of Ottawa, with the eastern end of Lake Ontario, at Kingston.

Length of navigation waters..	126 $\frac{1}{4}$ miles.
Number of locks going from Ottawa to Kingston.	{ 35 ascending. 14 descending.
Total lockage.....446 $\frac{1}{2}$ feet	{ 282 $\frac{1}{4}$ rise and 164 fall } at high water.
Dimensions of locks..	134 x 33 feet.
Depth of water on sills..	5 feet.
Navigation depth through the several reaches.. . .	4 $\frac{1}{2}$ “
Breadth of canal reaches at bottom..	{ 60 feet in earth. 54 feet in rock.
Breadth of canal at surface of water..	80 feet in earth.

PERTH BRANCH.

Construction commenced..	1883
“ completed..	1892
Length of canal..	7 miles.
Number of locks..	2
Dimensions of locks..	134 feet x 33 feet.
Total rise or lockage..	26 “
Depth of water on sills..	5 “ 6 inches.
Length of dam..	200 “
Breadth of canal at bottom..	40 “
Breadth of canal at surface of water..	{ 40 “ in rock. 60 “ in clay.

The Perth branch of the Rideau canal affords communication between Beveridge’s bay, on Lake Rideau and the town of Perth.

The summit level of the Rideau system is at upper Lake Rideau, but several of the descending reaches are also supplied by waters which have been made tributary to them. The following description gives the sources of supply:—

From the summit, the route towards Ottawa follows the Rideau river, and that towards Kingston follows the River Cataraqui. The supply of water for the canal is derived from the reserves given in detail below.

These may be divided into three systems, viz.:—

- 1. The summit level, supplied by the Wolfe lake system.
- 2. The eastern descending level to Ottawa, supplied by the River Tay system, discharging into Lake Rideau.
- 3. The southwest descending level to Kingston, supplied by the Mud lake system formerly known as the Devil lake system, discharging into Lake Openicon.

Lake Openicon receives the waters of Buck lake and Rock lake.

All these waters on the descending level, supplemented by those of Lake Loughboro’, flow into Cranberry lake, which, discharging through Round Tail outlet, forms the River Cataraqui. The river, rendered navigable by dams at various points, affords a line of navigation to Kingston.

RICHELIEU AND LAKE CHAMPLAIN.

This system, commencing at Sorel, at the confluence of the Rivers St. Lawrence and Richelieu, 46 miles below Montreal, extends along the River Richelieu, through the St. Ours lock to the basin of Chambly; thence, by the Chambly canal, to St. Johns, and up the River Richelieu to Lake Champlain. The distance from Sorel to the boundary line is 81 miles.

At Whitehall, the southern end of Lake Champlain is entered, and connection is obtained with the River Hudson, by which the city of New York is directly reached. From the boundary line to New York the distance is 330 miles.

The following table shows the distances between Sorel and New York:—

Section of Navigation.	Interme- diate Distance.	Total Distances.
	Miles.	Miles.
Sorel to St. Ours lock.	14	14
St. Ours lock to Chambly canal.	32	46
Chambly canal.	12	58
Chambly canal to boundary line.	23	81
Boundary line to Champlain canal.	111	192
Champlain canal to junction with Erie canal.	66	258
Erie canal, from junction to Albany.	7	265
Albany to New York.	146	411

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ST. OURS LOCK DAM.

Construction commenced..	1844
“ completed..	1849
Length..	$\frac{1}{8}$ mile.
Number of locks..	1 “
Dimensions of lock..	200 feet by 45 feet.
Total rise of lockage..	5 “
Depth of water on sills..	7 feet at low water.
Length of dam in eastern channel..	300 “
Length of dam in western channel..	690 “

At St. Ours, 14 miles from Sorel, the River Richelieu is divided by a small island into two channels. The St. Ours lock is in the eastern channel.

There is a navigable depth in the Richelieu of 7 feet between St. Ours lock and Chambly basin, a distance of 32 miles.

CHAMBLY CANAL.

Construction commenced..	1831
“ completed..	1843
Length of canal..	12 miles.
Number of locks.,	9
Dimensions of locks:—	
Guard lock, No. 1 at St. Johns.....	122 feet.
Lift “ 2	124 “
“ “ 3, 4, 5, 6	118 “
“ “ 7, 8, 9 combined	125 “
Total rise or lockage..	74 “
Depth of water on sills..	7 “
Breadth of canal at bottom..	36 “.
Breadth of canal at surface of water..	60 “

This canal succeeds the 32 miles of navigable water between St. Ours lock and Chambly basin. The canal overcomes the rapids between Chambly and St. Johns.

TRENT CANAL.

The term ‘Trent canal’ is applied to a series of water stretches ,which do not, however, form a connected system of navigation, and which, in their present condi- tion, are efficient only for local use. By various works this local use has been extended, and by others, now in progress and contemplation, this will become a through route between Lake Ontario and Lake Huron.

The series is composed of a chain of lakes and rivers, extending from Trenton, at the mouth of the River Trent, on the Bay of Quinté, Lake Ontario, to Lake Huron.

Many years ago the utilizing of these waters for the purpose of through water communication between Lake Huron and Lake Ontario was projected.

The course, as originally contemplated and modified, is as follows:—

Through the River Trent, Rice lake, the River Otonabee and Lakes Clear, Stony, Lovesick, Deer, Buckhorn, Chemong, Pigeon, Sturgeon and Cameron to Lake Balsam, the summit water, about 165 miles from Trenton; from Lake Balsam by a canal and the River Talbot to Lake Simcoe; thence by the River Severn to Georgian bay, Lake Huron; the total distance being about 200 miles, of which only about 15 or 20 miles will be actual canal.

The full execution of the scheme, commenced by the Imperial Government in 1837, was deferred. By certain works, however, below specified, sections of these

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waters have been made practicable for navigation, and the whole scheme is now being carried out. A branch of the main route, extending from Sturgeon lake south, affords communication with the town of Lindsay, and, through Lake Scugog to Port Perry, a distance of 190 miles from Trenton.

The following table gives the distance of navigable and unnavigable reaches:—

From Trenton, Bay of Quinté to Nine Mile rapids ..	—	9
Nine Mile rapids to Percy landing.. .. .	19½	—
Percy landing to Heeley's Falls dam.. .. .	—	14½
Heeley's Falls dam to Peterborough.. .. .	51¾	—
Peterborough to Lakefield.. .. .	—	9
Lakefield to a point across Balsam lake.. .. .	61	—
	<hr/>	<hr/>
	132¼	32½
	<hr/>	<hr/>

Total distance, Bay of Quinté to a point across Balsam lake.. 165

From Sturgeon point on Sturgeon lake, 48¾ miles from Lakefield, the branch through the town of Lindsay to Port

Perry at the head of Lake Scugog.. .. . 27

The works by which the Trent navigation has been improved comprise canals, with locks and bridges, at Young's point, Burleigh rapids, Lovesick, Buckhorn rapids, Bobcaygeon, Fenelon falls and Rosedale; also dams at Lakefield, Young's point, Burleigh falls, Lovesick, Buckhorn, Bobcaygeon and Fenelon falls. By these works there is afforded communication between Lakefield, 9½ miles from Peterborough, and Balsam lake, the headwaters of the system; opening up a total of about 160 miles of direct and lateral navigation.

At Lakefield, 9½ miles from Peterborough, the dam at the head of the Nine Mile rapids of the River Otonabee maintains navigation on Lake Katchewanoe up to Young's point.

At Young's point, 5 miles from Lakefield, the dam between Lake Katchewanoe and Clear lake controls the water level through Clear and Stony lakes up to the foot of the Burleigh canal.

At Burleigh rapids, 10 miles from Young's point, a canal, about 2¼ miles in length, passes the Burleigh and Lovesick rapids, and gives communication between Stony lake and Deer bay.

At Buckhorn rapids, 7 miles from Burleigh rapids, there is a canal about one-fourth of a mile long.

At Bobcaygeon, 15¾ miles from Buckhorn rapids, a dam, 553 feet long, controls the water level to Fenelon falls.

At Fenelon falls, 15 miles from Bobcaygeon, a canal about one-third of a mile in length connects Sturgeon lake with Cameron lake.

The following is a list of the locks, with their dimensions:—

1	Lock at Rosedale (maintained by the Ontario government), 100' x 30' x 4' 6' to 6' 6" depth water on mitre sill.		
2	Locks at Fenelon....	134' x 33' x 5' 0" to 7' 6" depth water on mitre sill.	
1	" Lindsay	134' x 33' x 5' 0" to 7' 6"	" "
1	" Bobcaygeon	134' x 33' x 5' 8" to 7' 0"	" "
1	" Buckhorn	134' x 33' x 5' 0" to 9' 0"	" "
1	" Lovesick	134' x 33' x 5' 0" to 9' 4"	" "
2	" Burleigh	134' x 33' x 6' 0" to 8' 0"	" "
1	" Young's point.	134' x 33' x 5' 0" to 14' 0"	" "
1	" Peterborough .	134' x 33' x 5' 0" to 10' 0"	" "
1	" Hastings	134' x 33' x 7' 0" to 10' 6"	" "
1	" Chisholms	134' x 33' x 5' 0" to 8' 6"	" "

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ST. PETER'S CANAL, CAPE BRETON.

Construction commenced.. . . .	1854
“ completed.. . . .	1869
Enlargement begun.. . . .	1875
“ completed.. . . .	1881
Length of canal.. . . .	About 2,400 feet.
Breadth at water line.. . . .	50 feet.
Lock.. . . .	One tidal lock, 4 pairs of gates.
Dimensions.. . . .	200 feet by 48 feet.
Depth of water on sills.. . . .	18 feet at lowest water.
Depth through canal.. . . .	19 “
Extreme rise and fall of tide in St. Peter's bay.. . . .	4 “

This canal connects St. Peter's bay on the northern side of Cape Breton, Nova Scotia, with the Bras d'Or lakes. It crosses an isthmus half a mile in width, and gives access from the Atlantic.

BEAUHARNOIS CANAL.

Construction begun.. . . .	1842
“ completed.. . . .	1845
Length of canal.. . . .	12 statute miles.
Number of locks.. . . .	9
Dimensions of locks.. . . .	200 feet by 45 feet.
Total rise or lockage.. . . .	82½ “
Depth of water on sills.. . . .	9 “
Breadth of canal at bottom.. . . .	80 “
Breadth of canal at water surface.. . . .	120 “

As the new Soulanges canal is now opened for navigation, the Beauharnois canal is abandoned for navigation purposes.

EARLIER CANALS.

A system of three canals preceded the Bearharnois. These were:—

COTEAU DU LAC CANAL.

Construction commenced.. . . .	1779
“ completed.. . . .	1780

SPLIT ROCK CANAL.

Construction commenced.. . . .	1779
“ completed.. . . .	1780

CASCADE POINT CANAL.

Construction commenced.. . . .	1782
“ completed.. . . .	1783

The locks were 20 x 6 feet, and provided for a draft of 2 feet. In 1814 the work of widening them to 12 feet was begun, and finished in 1817.

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Two canals were also constructed off Burlington Bay, Ontario. They were:—

BURLINGTON BAY CANAL.

Construction commenced..	1825
“ completed..	1832

DESJARDINS CANAL.

Construction commenced..	1826
“ completed..	1837

Neither of these canals required locks. They have for many years been abandoned. The depth of water provided in the first instance was $7\frac{1}{2}$ feet.

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ST. LAWRENCE NAVIGATION—TABLE OF DISTANCES.

FROM STRAITS OF BELLE-ILE TO PORT ARTHUR, AT HEAD OF LAKE SUPERIOR
BY WATER.

From	To	Sections of Navigation.	Statute Miles.	
			Inter- mediate.	Total to Straits of Belle-Ile.
Straits of Belle-Ile.....	Cape Whittle.....	Gulf of St. Lawrence ...	240	240
Cape Whittle.....	West Point, Anticosti.....	"	201	441
West Point, Anticosti.....	Father Point.....	River St. Lawrence.....	202	643
Father Point.....	Rimouski	"	6	649
Rimouski..	Bic.....	"	12	661
Bic.....	Isle Verte.....	"	39	700
Isle-Verte (opp. Saguenay).	Quebec.....	"	126	826
Quebec.....	Three Rivers.....	" to tide-water.....	74	900
Three Rivers.....	Montreal.....	"	86	986
Montreal.....	Lachine.	Lachine Canal.....	8½	994½
Lachine	Cascade Point.....	Lake St. Louis.....	16	1,009½
Cascade Point	Coteau Landing.. ..	Soulanges Canal.....	14	1,021
Coteau Landing.	Cornwall.....	Lake St. Louis.....	30	1,053¾
Cornwall.....	Dickinson's Landing.....	Cornwall Canal.....	11½	1,065½
Dickinson's Landing	Farran's Point.....	River St. Lawrence.....	5	1,070½
Farran Point.....	Upper end of Croyle's Island.....	Farran's Point.....	3½	1,071
Upper end Croyle's Island.	Williamsburg or Morrisburg.....	River St. Lawrence.....	10½	1,081½
Williamsburg.....	Rapide Plat.....	Rapide Plat Canal.....	4	1,085½
Rapide Plat.....	Point Iroquois Village.....	River St. Lawrence.....	4½	1,090
Point Iroquois Village.....	Upper end Presqu'Ile.....	Point Iroquois Canal	3	1,093
Presqu-Ile.....	Point Cardinal, Edwardsburg..	Junction Canal.....	2½	1,095½
Point Cardinal.....	Head of Galops Rapids	Galops Canal... ..	2	1,097½
Galops Rapids	Prescott.....	River St. Lawrence.....	7½	1,105
Prescott.....	Kingston.....	"	59	1,164
Kingston.....	Port Dalhousie.....	Lake Ontario.....	170	1,334
Port Dalhousie.....	Port Colborne.....	Welland Canal.....	26¾	1,360¾
Port Colborne	Amherstburg.....	Lake Erie.. ..	232	1,592
Amherstburg.....	Windsor	River Detroit.....	18	1,610
Windsor.....	Foot of St. Mary's Island ..	Lake St. Clair.....	25	1,635
Foot of St. Mary's Island..	Sarnia	River St. Clair.....	33	1,668
Sarnia	Foot of St. Joseph Island.....	Lake Huron.....	270	1,938
Foot of St. Joseph's Island.	Foot of Sault Ste. Marie.....	River Ste. Marie.....	47	1,985
Sault-Ste. Marie.....	Head of Sault Ste. Marie.....	Sault Ste. Marie Canal..	1	1,986
Head of Sault Ste. Marie..	Point aux Pins.....	River Ste. Marie.....	7	1,993
Pointe aux Pins.....	Port Arthur.....	Lake Superior.....	266	2,259½
Port Arthur to Lake Shebandowan.....			45	
Lake Shebandowan to North-west Angle.....			312	
North-west Angle to Winnipeg.....			95	
Pointe aux Pins to Duluth.....			390	

Of the 2,259½ miles from the Straits of Belle-Ile to the head of Lake Superior, 73½ miles are artificial navigation, and 2,188½ open navigation.
Straits of Belle-Ile to Liverpool, 1,942 geographical or 2,234 statute miles.
The total fall from Lake Superior to tide-water is about 600 feet.
The steamboat voyage from Collingwood to Port Arthur is 532 miles.
" " Depot Harbour to Port Arthur is 510 miles ; to Duluth is 644 miles ; to Chicago 525 miles, and to Milwaukee, 442 miles.

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TABLE of distances of Stations between the cities of Ottawa and Kingston.

No. of Station.	Name of Station.	Distances from Ottawa.	Locks.		Dams.			Length of Arti- ficial Canal at each Station in miles.
			No.	Lift at Low water.	No.	Length.	Height.	
				Rise. Ft. In.				
		Miles.				Feet.	Feet.	
1	Ottawa.....	0	8	82 0	3	<div>230 1,320 1,616</div>	<div>13 33 14</div>	
2	Hartwell's.....	4 $\frac{1}{4}$	2	22 0	...	100	28	4.00
3	Hogsback.....	5 $\frac{1}{2}$	2	13 6	1	320	60	
4	Black Rapids.	9 $\frac{1}{2}$	1	10 0	1	300	12	0.13
5	Long Island.....	14 $\frac{3}{4}$	3	27 0	3	850	68	0.13
6	Burritt's.....	40 $\frac{3}{4}$	1	10 6	1	240	14	1.50
7	Nicholson.....	43 $\frac{3}{4}$	2	15 2	1	500	9	0.50
8	Clowes.....	44 $\frac{1}{2}$	1	10 0	1	481	16	0.05
9	Merrickville.....	46 $\frac{3}{4}$	3	25 0	1	150	6	0.33
10	Maitland.....	55	1	4 9	1	270	8	0.13
11	Edmunds.....	59 $\frac{1}{2}$	1	10 10	1	343	8	0.06
12	Old Slys....	60 $\frac{1}{2}$	2	15 6	1	250	20	0.25
13	Smith's Falls.....	61 $\frac{1}{2}$	4	33 9	2	600	24	0.13
14	First Rapids or Poonamalie.....	64	1	7 9	1	260	5	1.25
15	Narrows.....	83 $\frac{1}{4}$	1	4 0	1	600	9	0.06
	Total rise at low water.....			292 3				
				Fall.				
16	Isthmus.....	87 $\frac{1}{2}$	1	4 0	.....	.....	.....	1.25
17	Chaffey.....	92	1	12 6	.....	.....	.....	0.13
18	Davis.....	94 $\frac{1}{2}$	1	9 0	1	300	15	0.06
19	Jones' Falls..	97 $\frac{1}{4}$	4	60 0	1	300	60	0.25
20	Brewer's Upper Mills.....	108 $\frac{1}{4}$	2	19 0	1	200	20	1.75
21	" Lower Mills.....	110	1	14 2	1	200	12	4.25
22	Kingston Mills.....	120 $\frac{1}{4}$	4	46 8	1	6,042	14	0.25
23	Kingston.....	126 $\frac{1}{4}$
	Total fall at low water			165 4				
	Total.....		47	24	15,472	16.46

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